

FCC Appendix RF Test Data for BT

FCC ID : 2AOMX-PBX-1213

Company : QFX Inc.

EUT : Speaker

Model Number : PBX-1213

Report No. : CTA26060300201

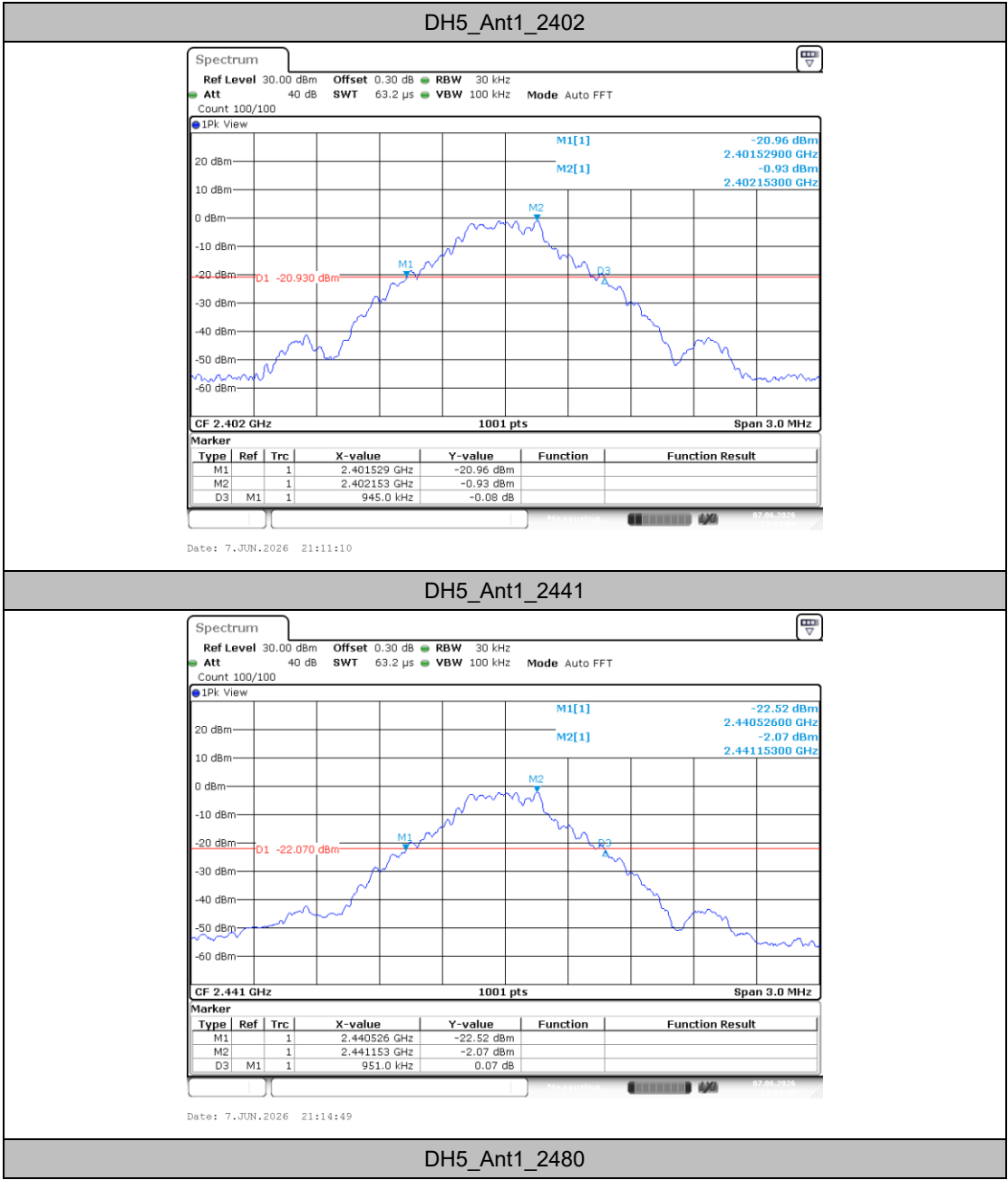
Reviewed By : Eric Wang

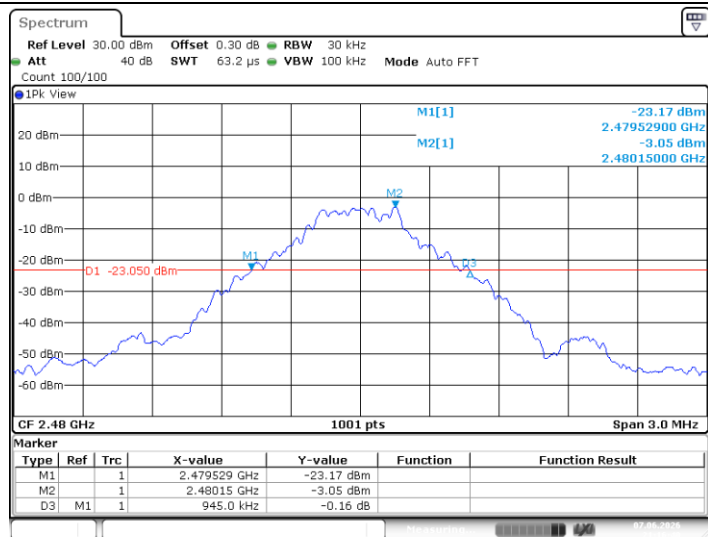
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.53	2402.47	---	---
		2441	0.95	2440.53	2441.48	---	---
		2480	0.95	2479.53	2480.47	---	---
2DH5	Ant1	2402	1.32	2401.34	2402.65	---	---
		2441	1.32	2440.33	2441.65	---	---
		2480	1.32	2479.33	2480.65	---	---
3DH5	Ant1	2402	1.29	2401.35	2402.64	---	---
		2441	1.29	2440.35	2441.64	---	---
		2480	1.29	2479.35	2480.64	---	---

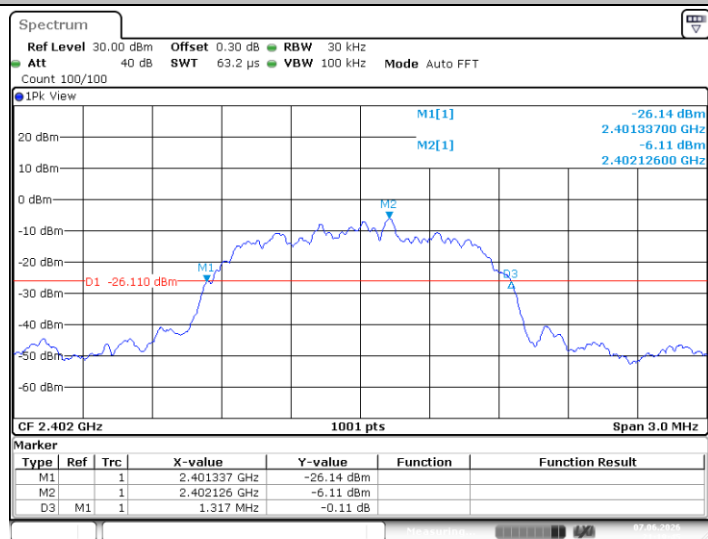
Test Graphs





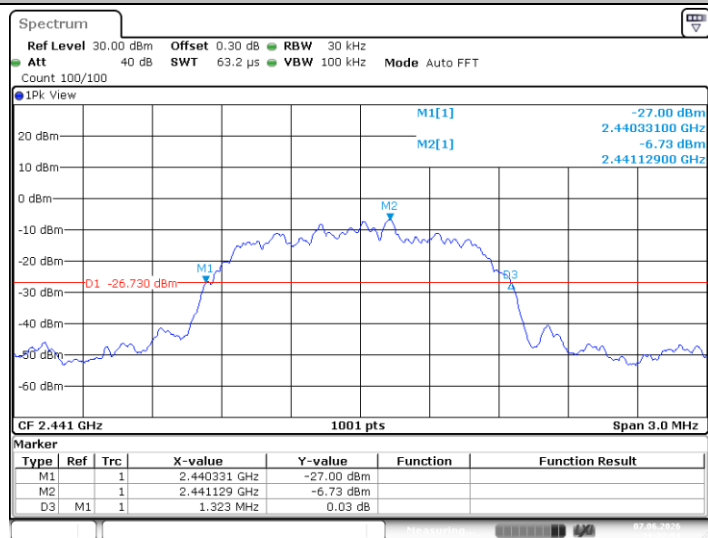
Date: 7.JUN.2026 21:16:40

2DH5_Ant1_2402



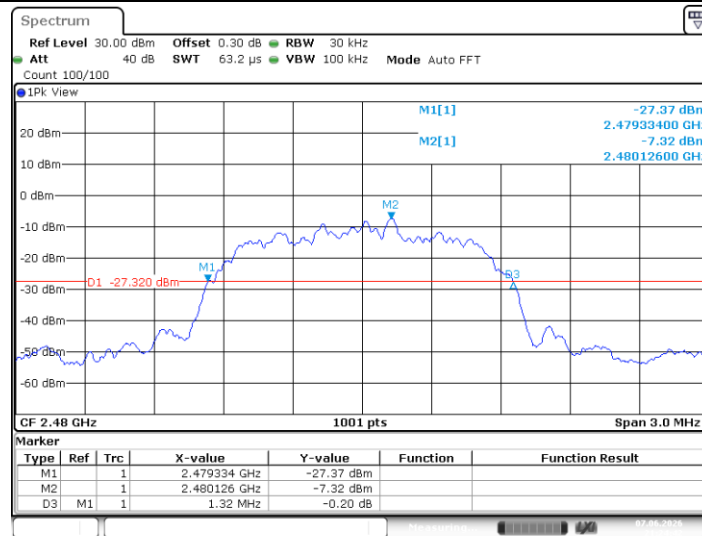
Date: 7.JUN.2026 21:19:46

2DH5_Ant1_2441



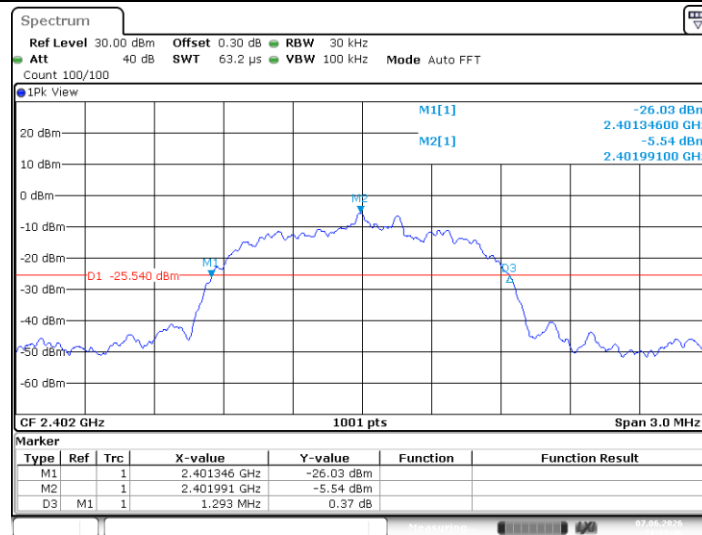
Date: 7.JUN.2026 21:22:51

2DH5_Ant1_2480



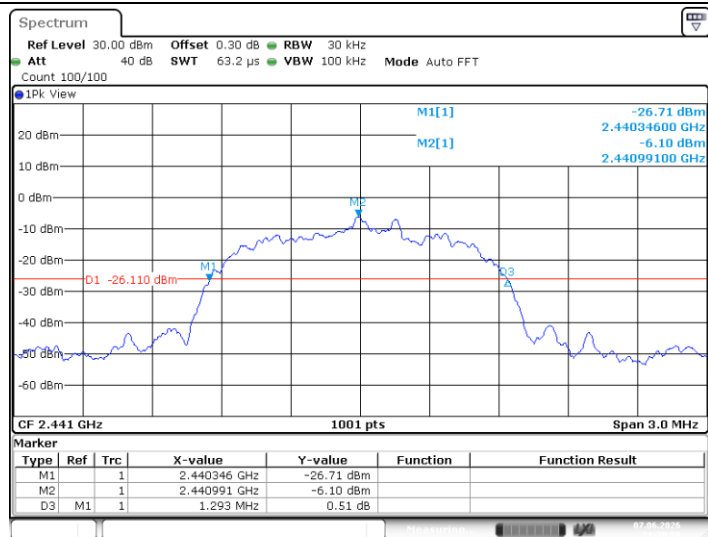
Date: 7.JUN.2026 21:24:42

3DH5_Ant1_2402



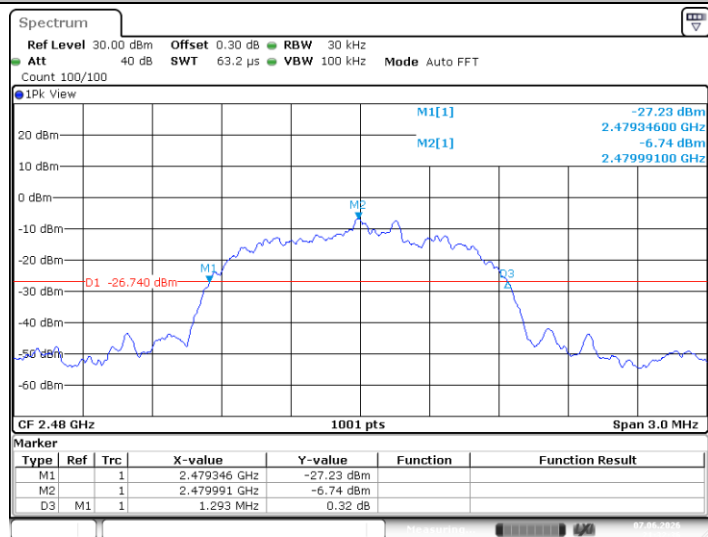
Date: 7.JUN.2026 21:27:47

3DH5_Ant1_2441



Date: 7.JUN.2026 21:30:49

3DH5_Ant1_2480



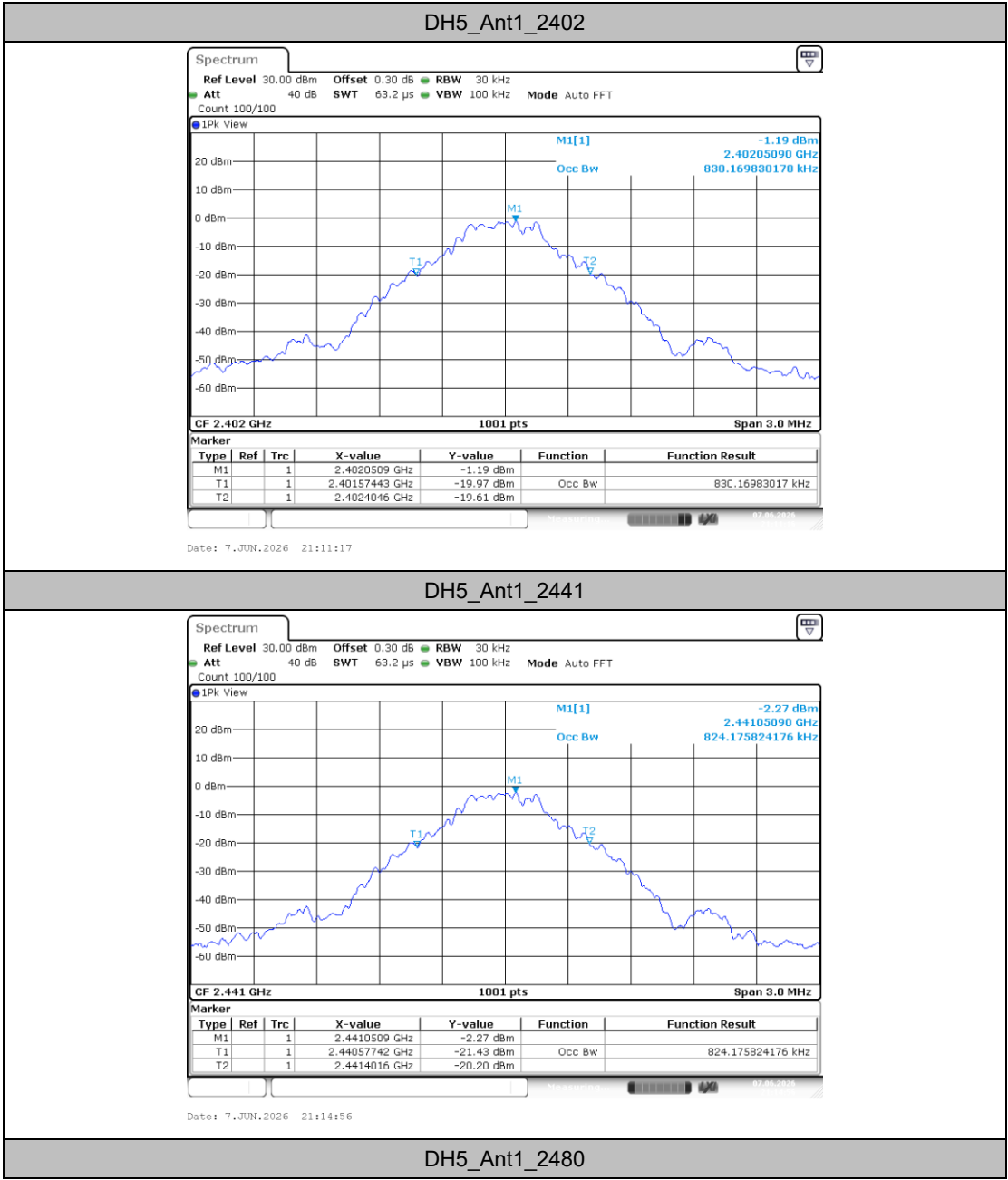
Date: 7.JUN.2026 21:32:36

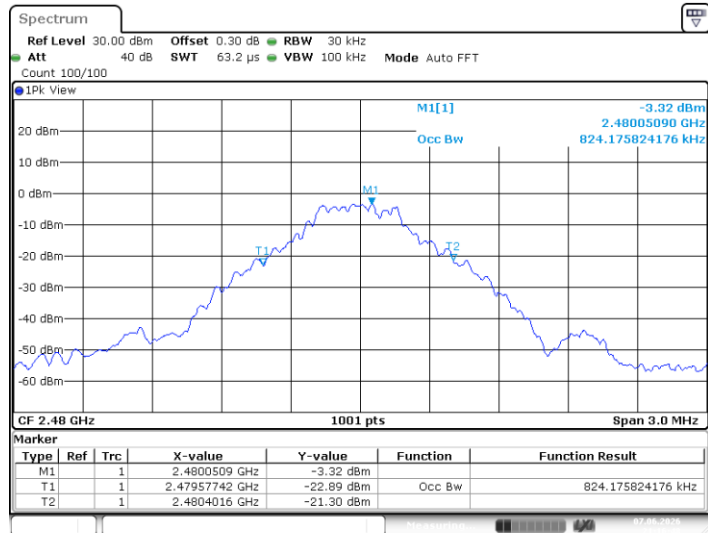
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83017	2401.5744	2402.4046	---	---
		2441	0.82418	2440.5774	2441.4016	---	---
		2480	0.82418	2479.5774	2480.4016	---	---
2DH5	Ant1	2402	1.1688	2401.4066	2402.5754	---	---
		2441	1.1718	2440.4036	2441.5754	---	---
		2480	1.1688	2479.4066	2480.5754	---	---
3DH5	Ant1	2402	1.1778	2401.4036	2402.5814	---	---
		2441	1.1688	2440.4096	2441.5784	---	---
		2480	1.1688	2479.4096	2480.5784	---	---

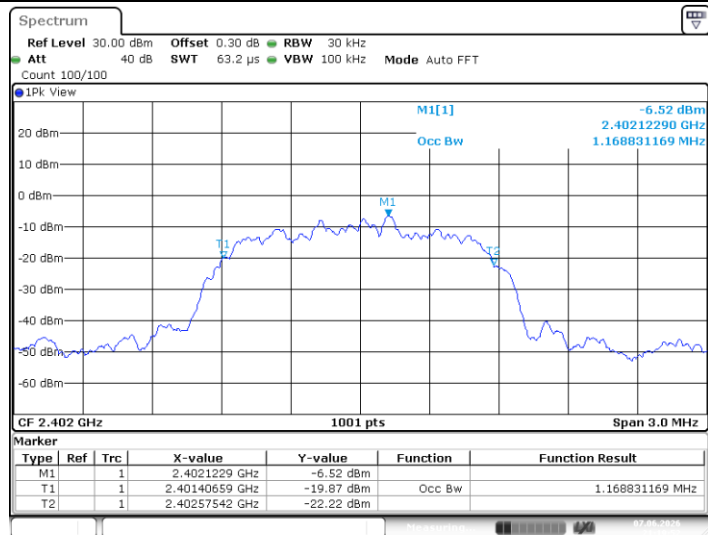
Test Graphs





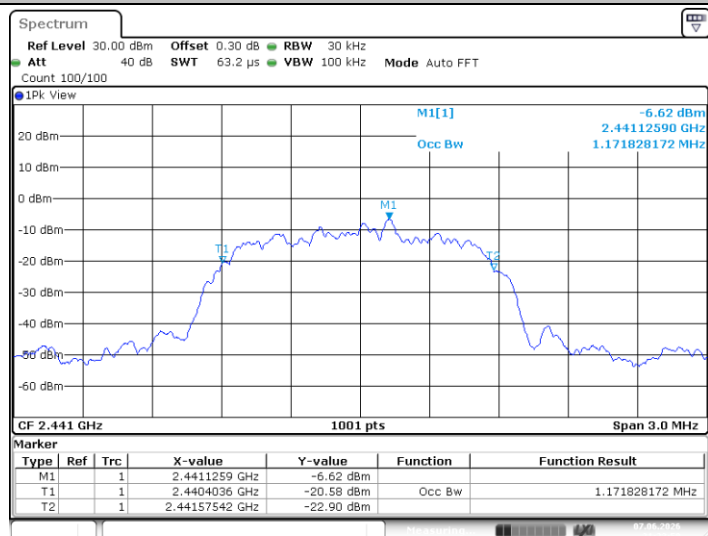
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2DH5_Ant1_2402



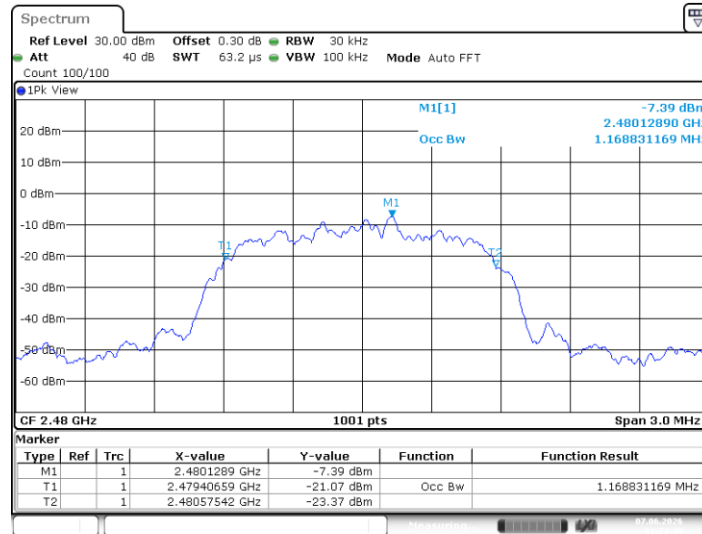
Date: 7.JUN.2026 21:19:52

2DH5_Ant1_2441



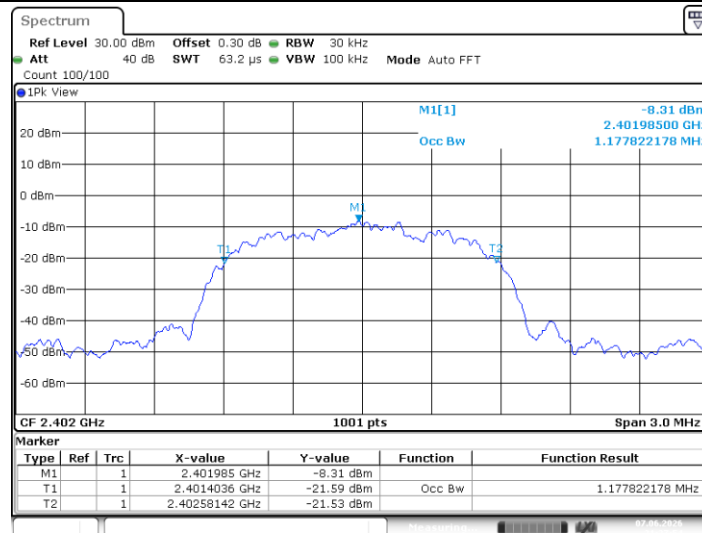
Date: 7.JUN.2026 21:22:58

2DH5_Ant1_2480



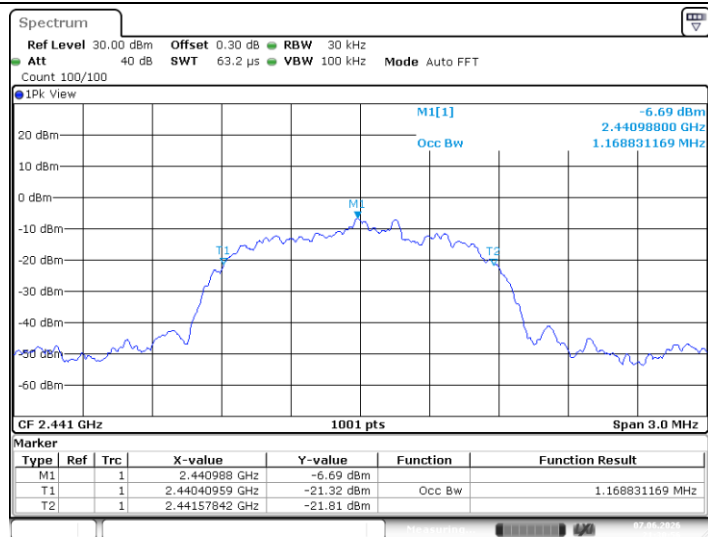
Date: 7.JUN.2026 21:24:49

3DH5_Ant1_2402



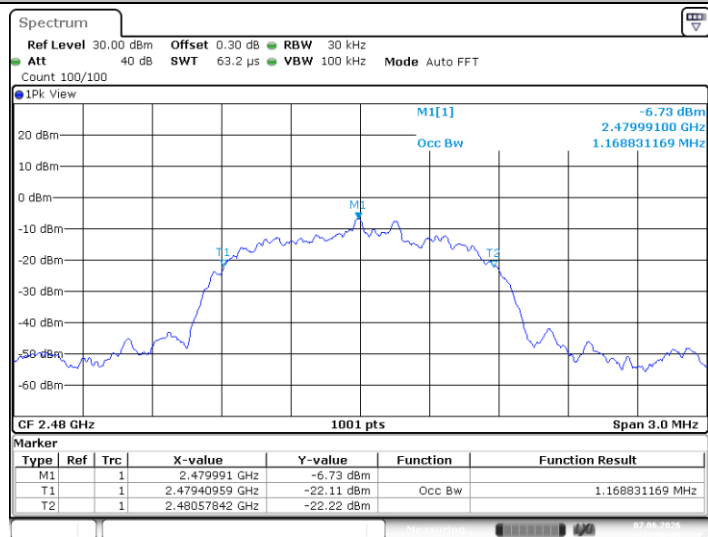
Date: 7.JUN.2026 21:27:53

3DH5_Ant1_2441



Date: 7.JUN.2026 21:30:56

3DH5_Ant1_2480



Date: 7.JUN.2026 21:32:42

Appendix C: Maximum conducted output power

Test Result Peak

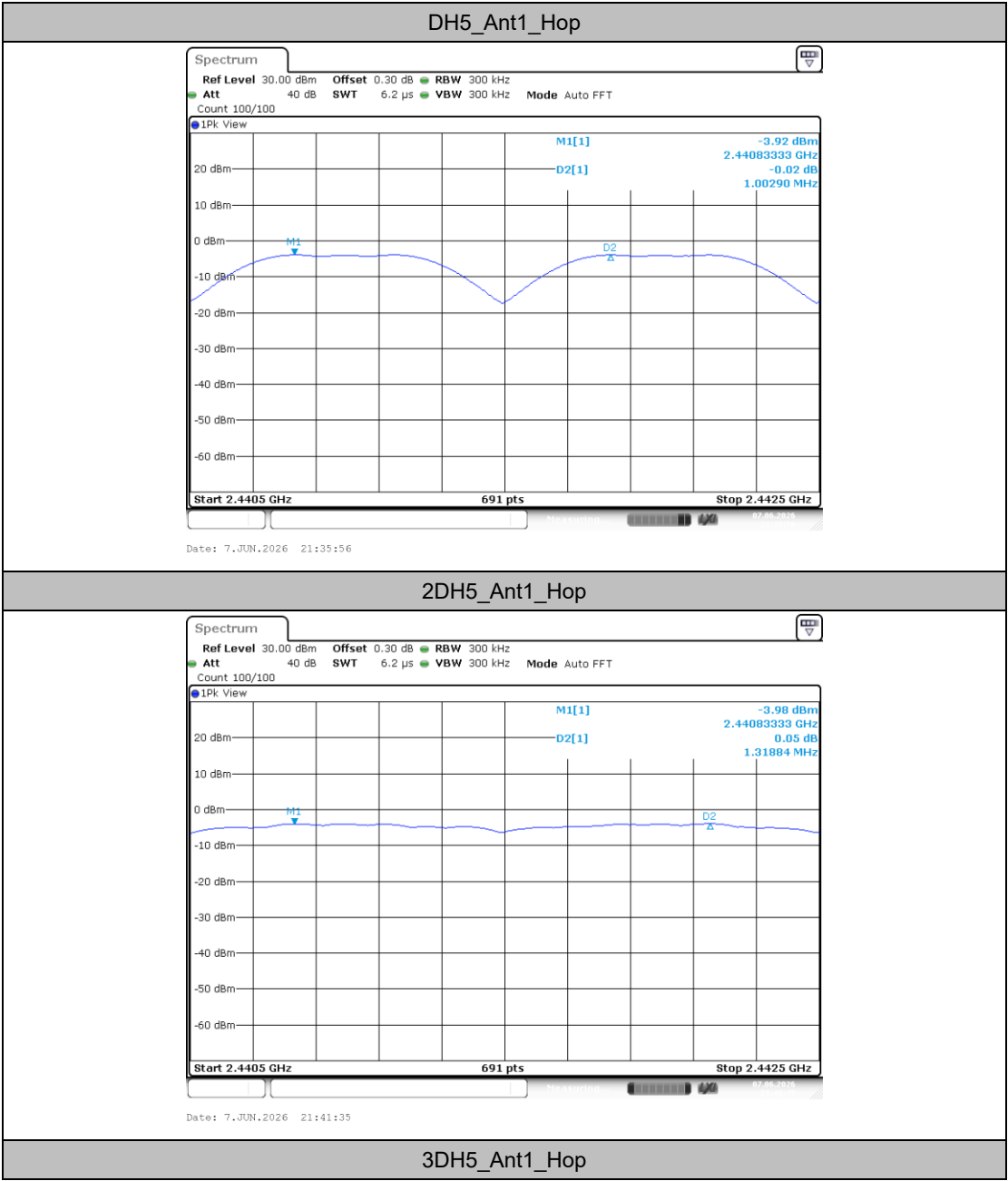
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.83	≤20.97	PASS
		2441	0.82	≤20.97	PASS
		2480	-0.24	≤20.97	PASS
2DH5	Ant1	2402	-0.70	≤20.97	PASS
		2441	-1.43	≤20.97	PASS
		2480	-2.12	≤20.97	PASS
3DH5	Ant1	2402	-0.41	≤20.97	PASS
		2441	-0.99	≤20.97	PASS
		2480	-1.73	≤20.97	PASS

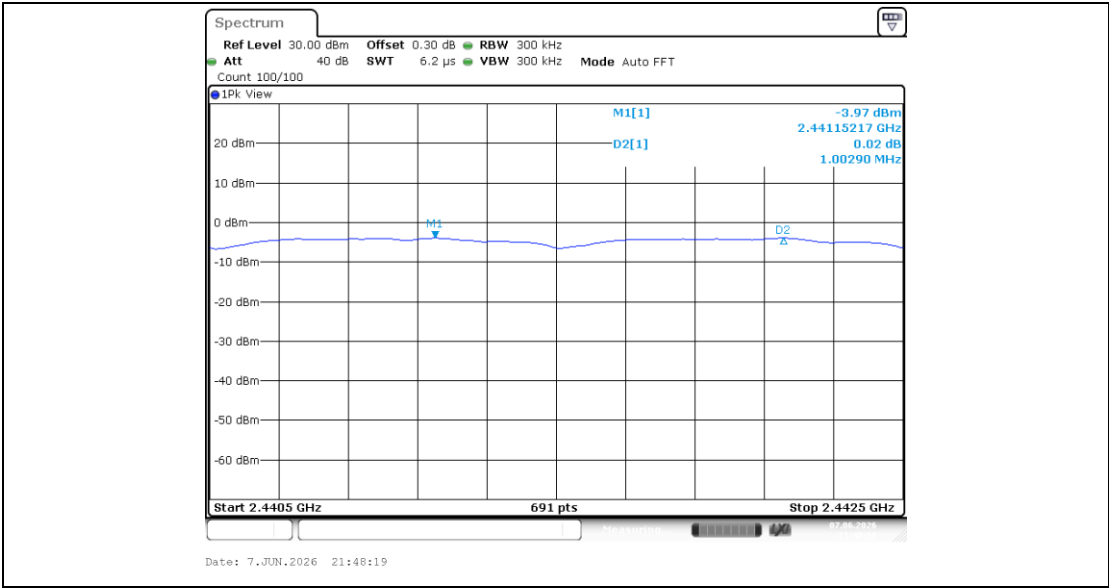
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.003	≥ 0.950	PASS
2DH5	Ant1	Hop	1.319	≥ 0.880	PASS
3DH5	Ant1	Hop	1.003	≥ 0.860	PASS

Test Graphs



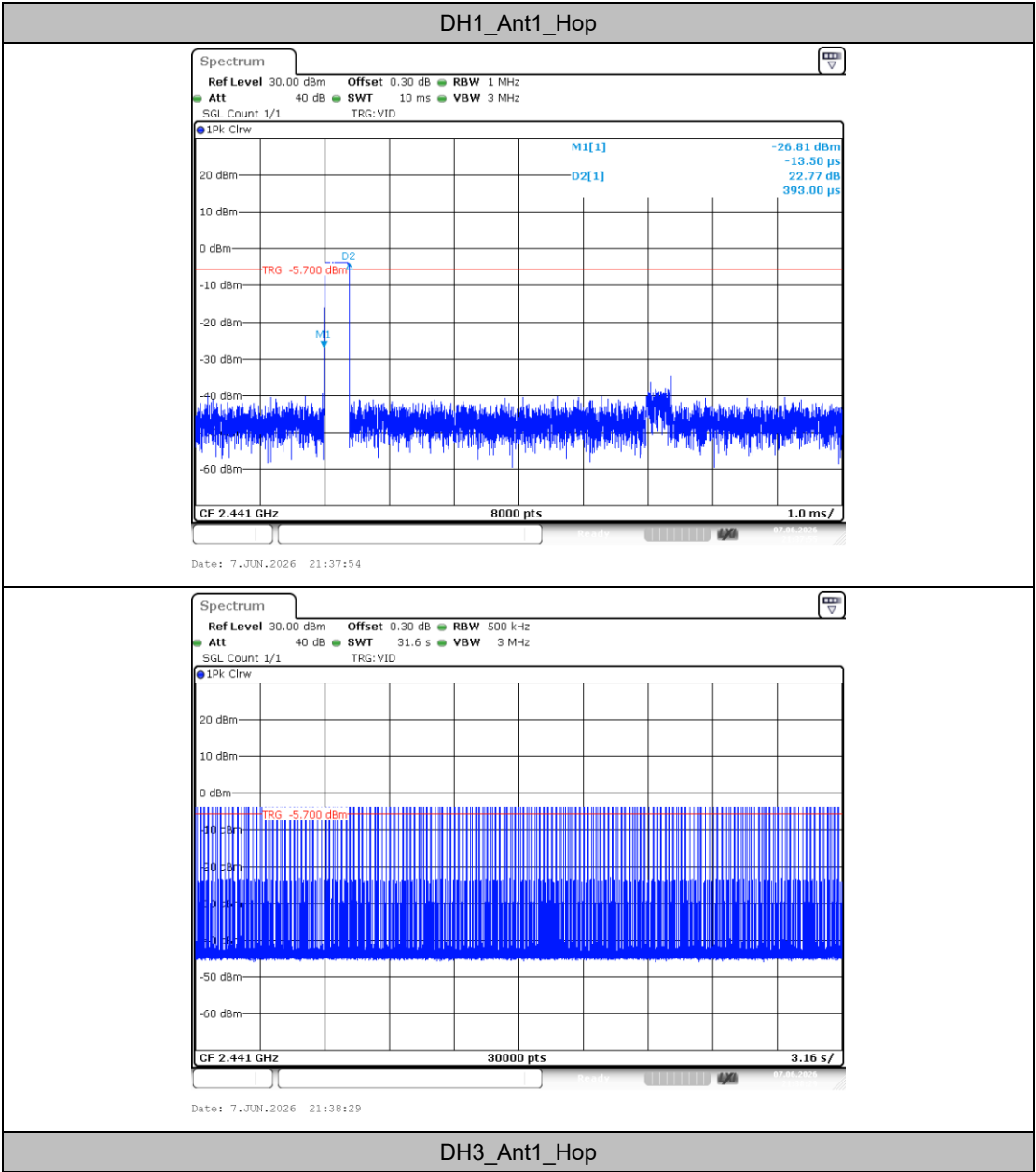


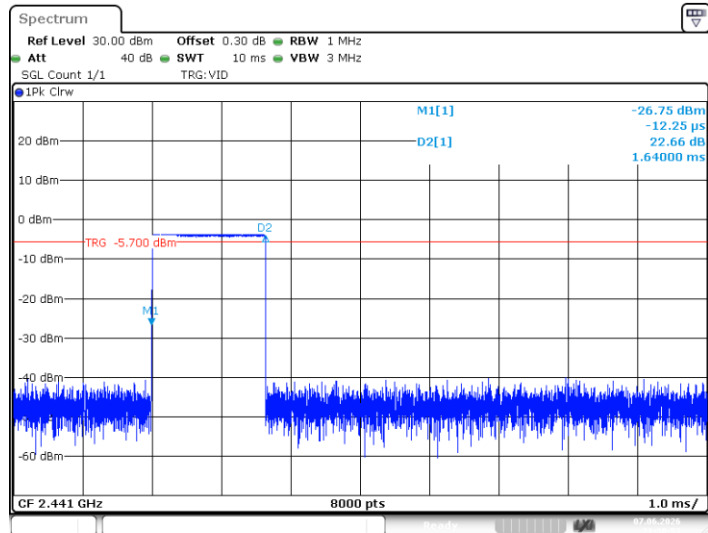
Appendix E: Time of occupancy

Test Result

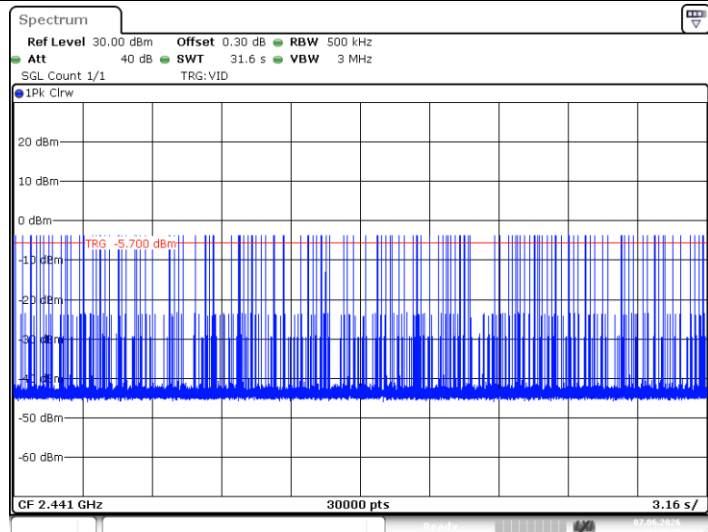
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.393	320	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.640	148	0.243	≤0.4	PASS
DH5	Ant1	Hop	2.882	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.401	320	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.646	145	0.239	≤0.4	PASS
2DH5	Ant1	Hop	2.887	99	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.404	320	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.646	145	0.239	≤0.4	PASS
3DH5	Ant1	Hop	2.889	90	0.26	≤0.4	PASS

Test Graphs



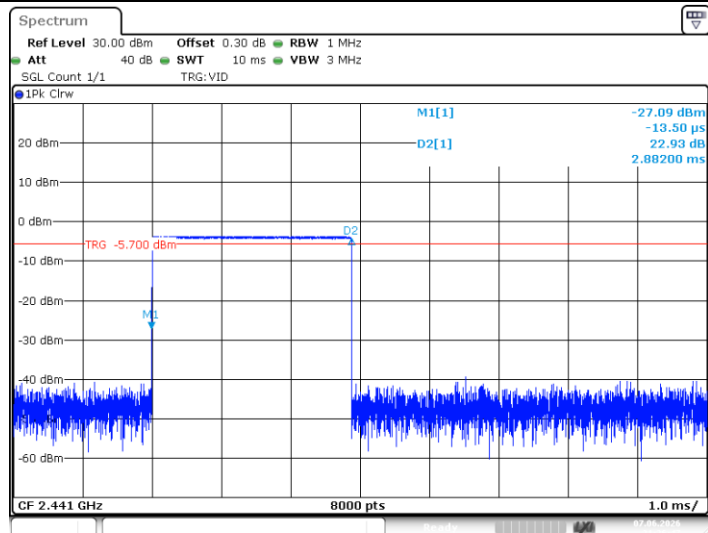


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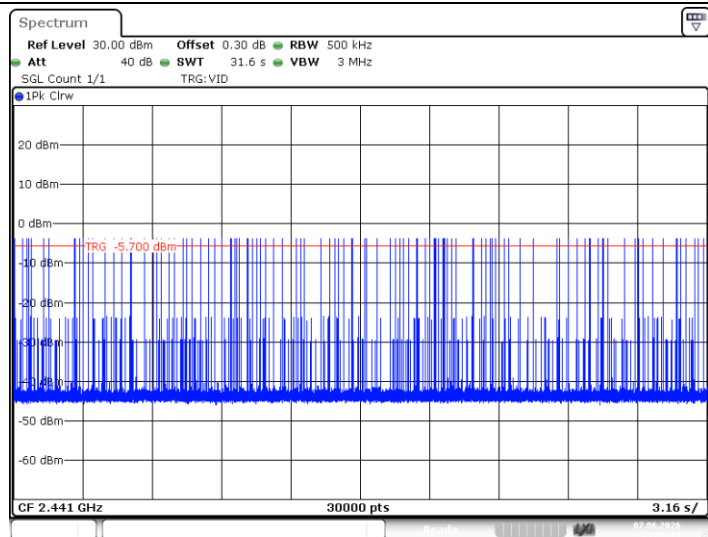


Date: 7.JUN.2026 21:39:27

DH5_Ant1_Hop

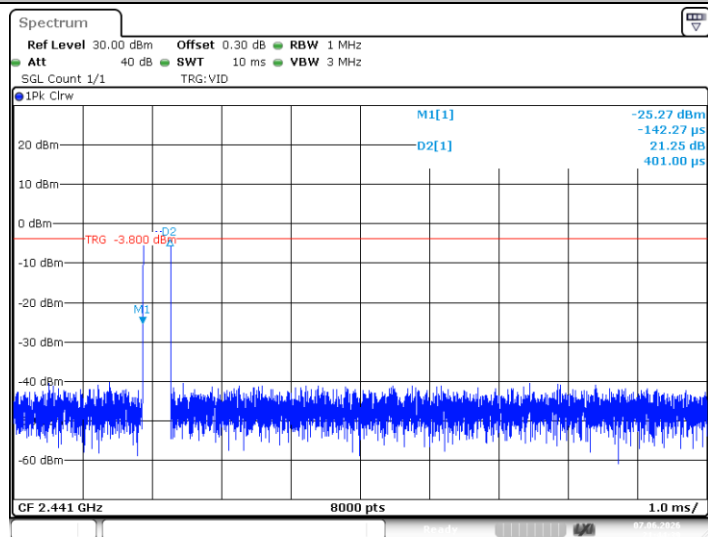


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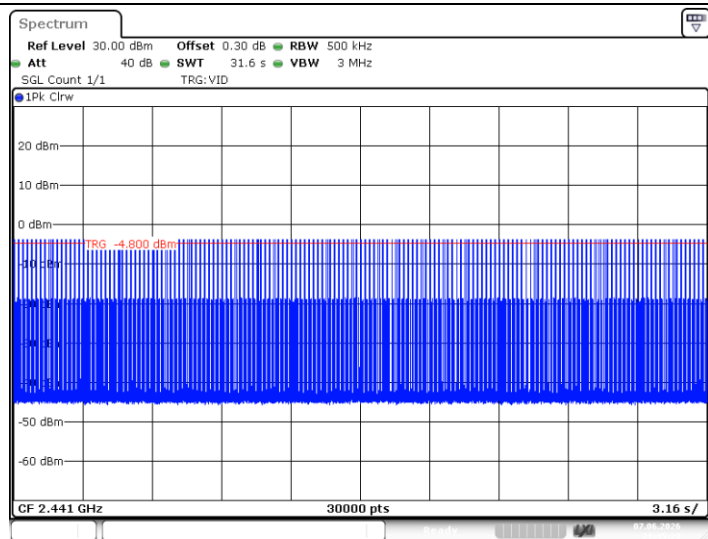


Date: 7.JUN.2026 21:37:22

2DH1_Ant1_Hop

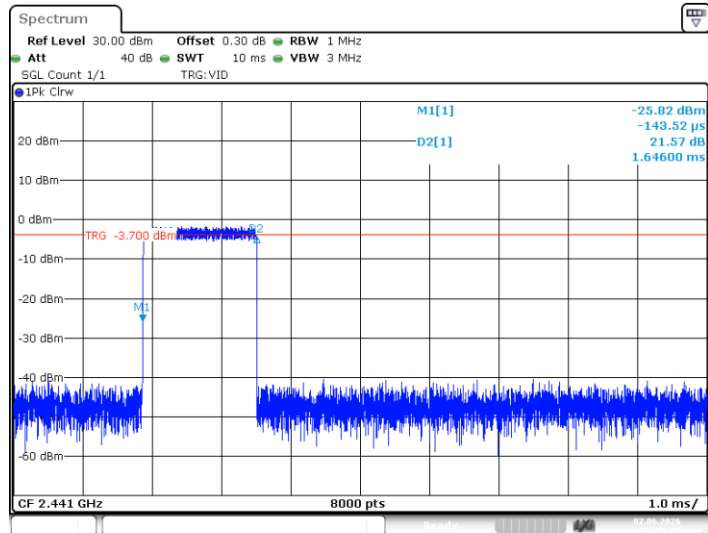


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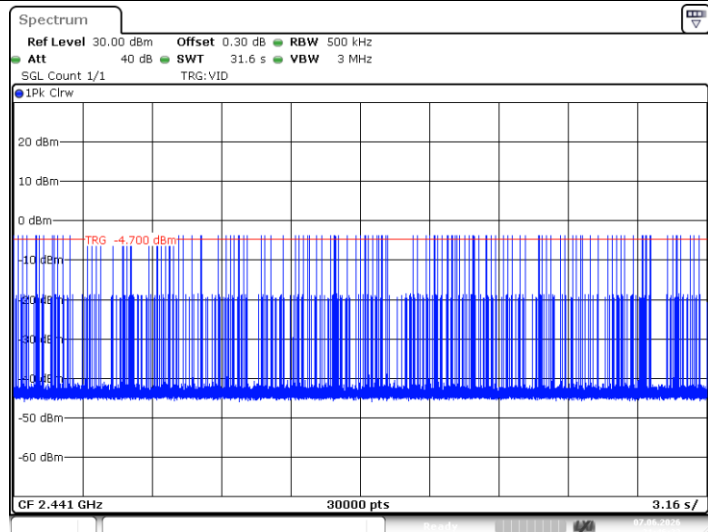


Date: 7.JUN.2026 21:45:20

2DH3_Ant1_Hop

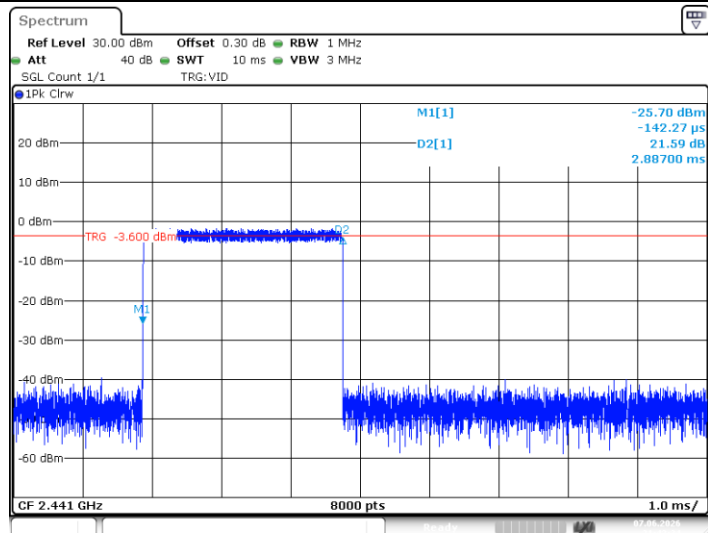


Date: 7.JUN.2026 21:45:42

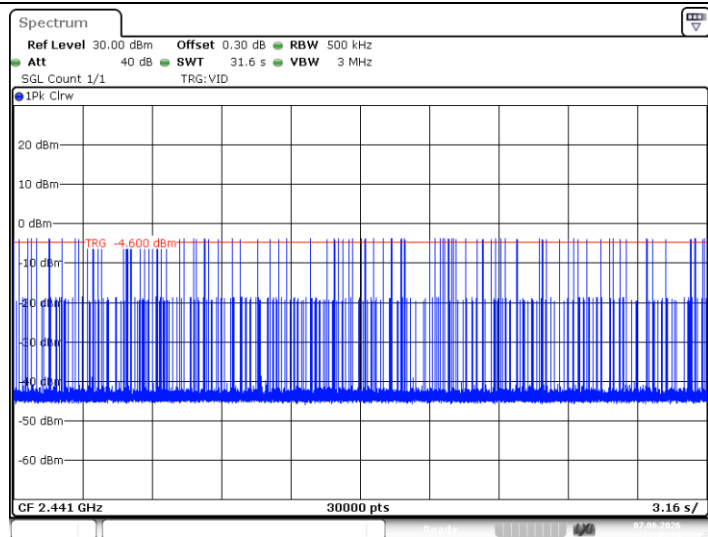


Date: 7.JUN.2026 21:46:22

2DH5_Ant1_Hop

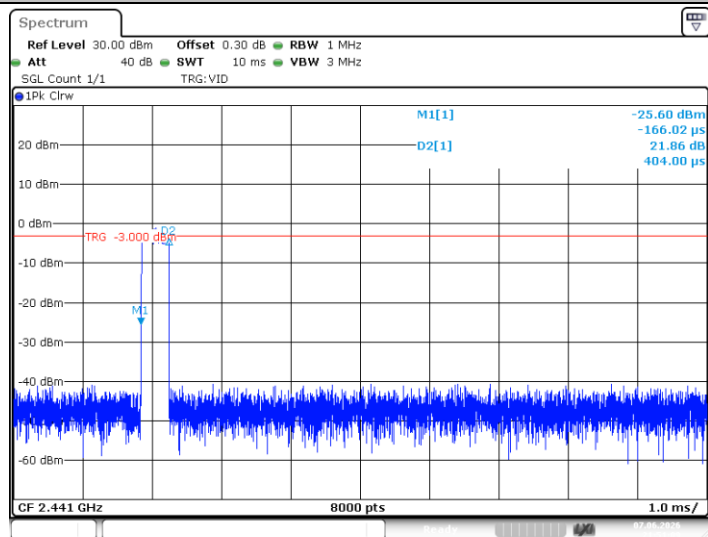


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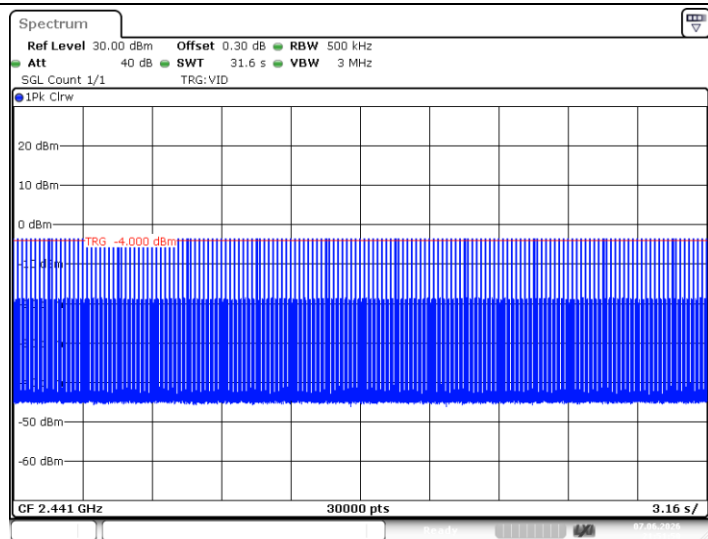


Date: 7.JUN.2026 21:43:14

3DH1_Ant1_Hop

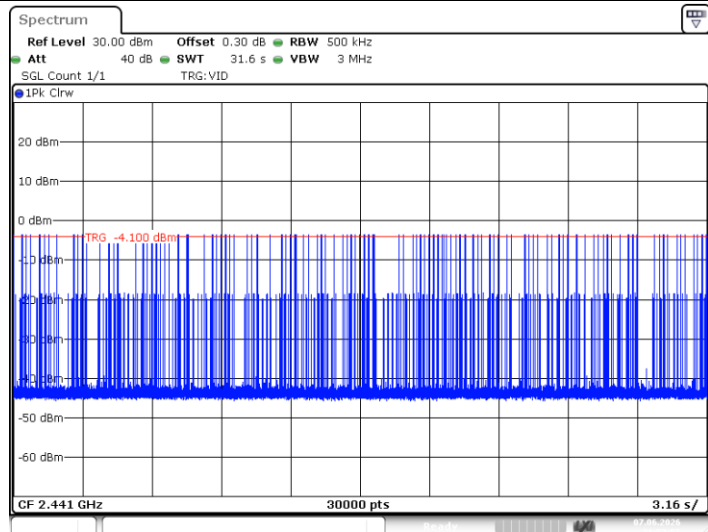
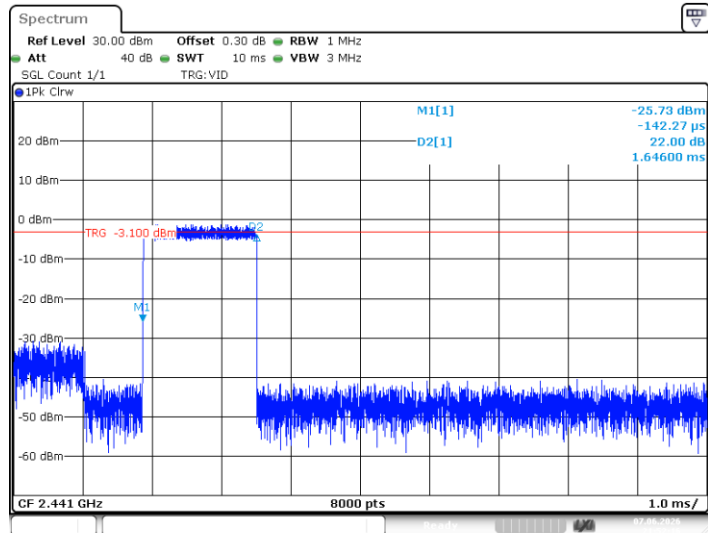


Date: 7.JUN.2026 21:51:09

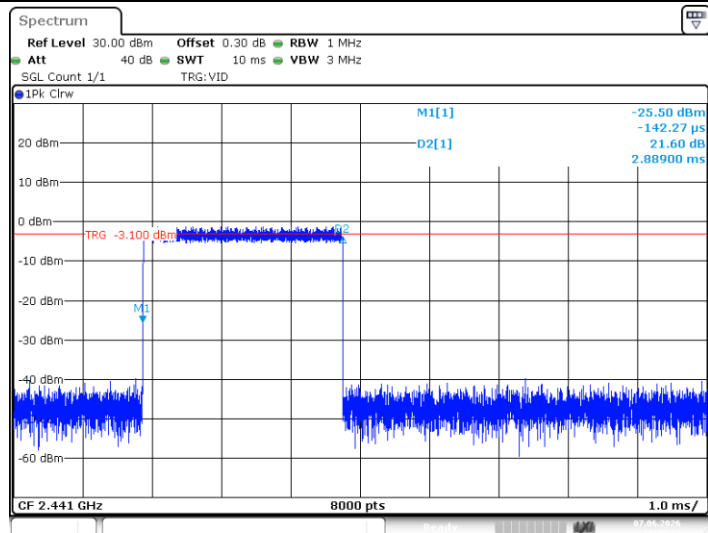


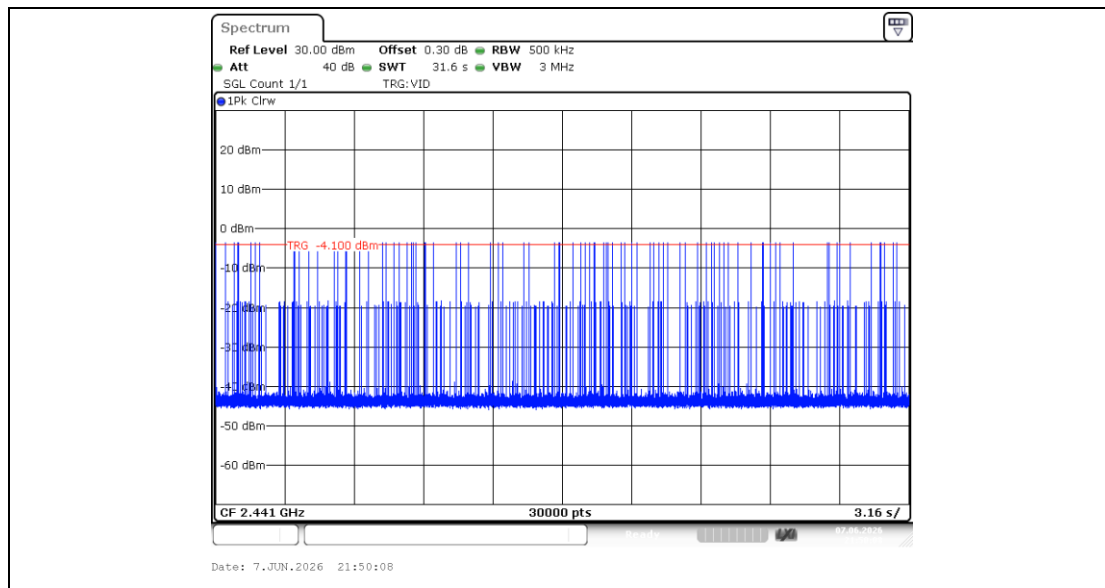
Date: 7.JUN.2026 21:51:50

3DH3_Ant1_Hop



3DH5_Ant1_Hop



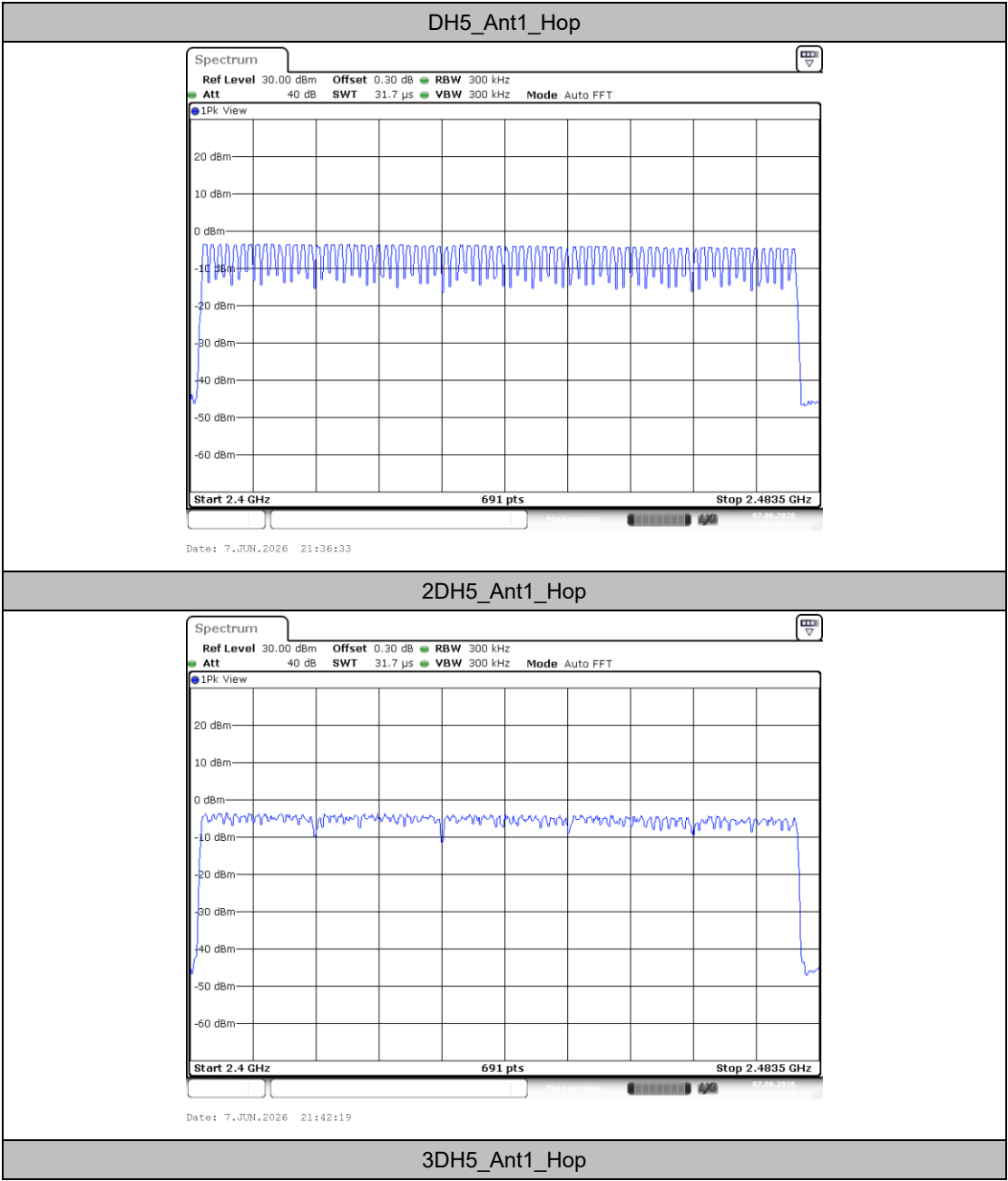


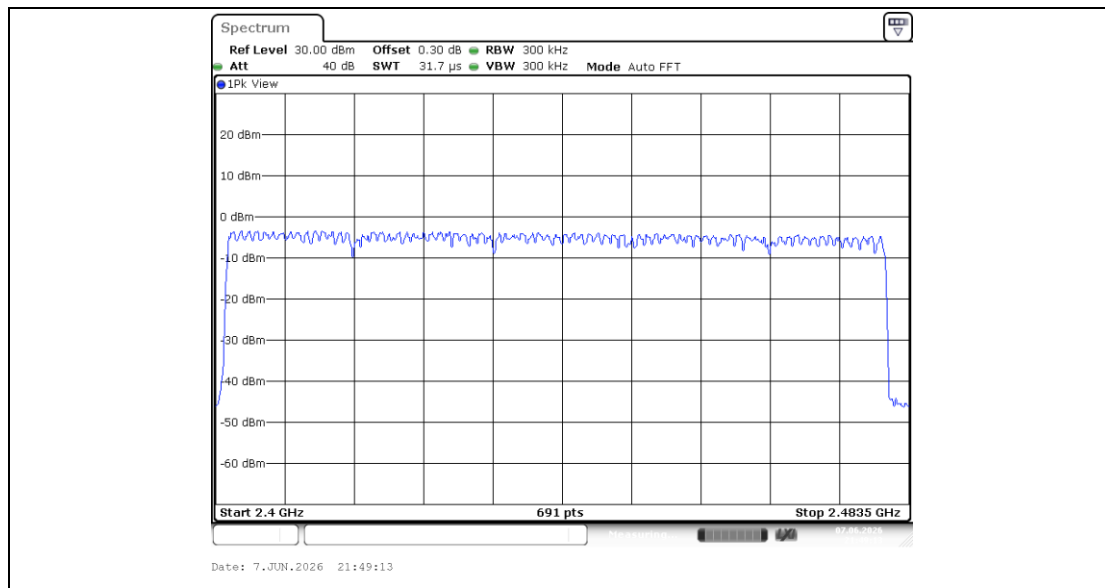
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



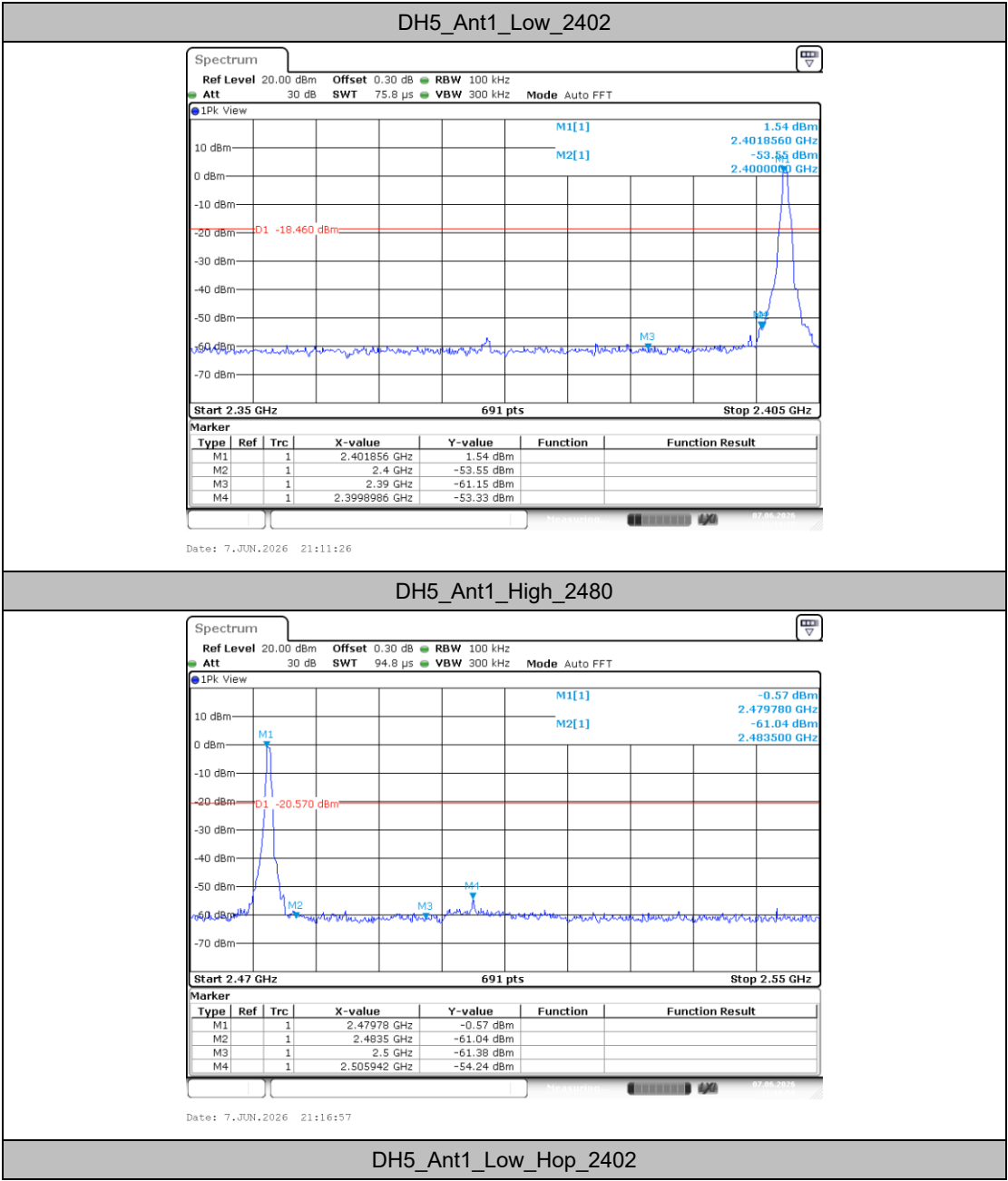


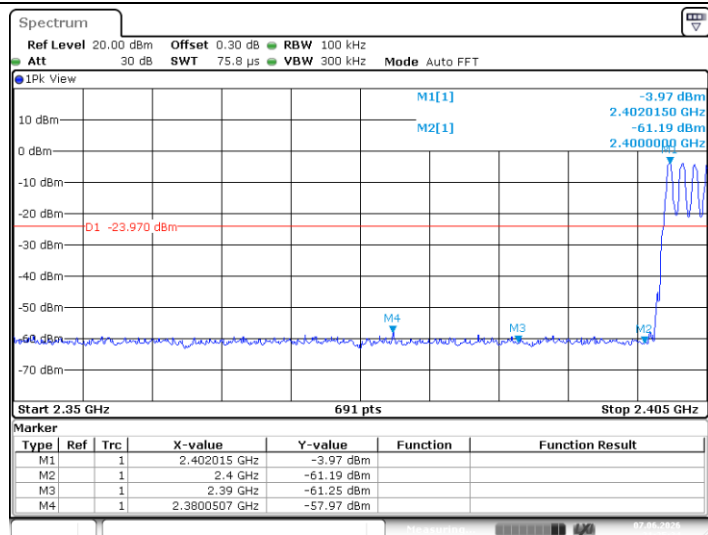
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.54	-53.33	≤-18.46	PASS
		High	2480	-0.57	-54.24	≤-20.57	PASS
		Low	Hop_2402	-3.97	-57.97	≤-23.97	PASS
		High	Hop_2480	-4.80	-56.05	≤-24.8	PASS
2DH5	Ant1	Low	2402	-3.66	-57.44	≤-23.66	PASS
		High	2480	-5.55	-40.58	≤-25.55	PASS
		Low	Hop_2402	-4.32	-59.05	≤-24.32	PASS
		High	Hop_2480	-6.43	-56.83	≤-26.43	PASS
3DH5	Ant1	Low	2402	-3.50	-55.95	≤-23.5	PASS
		High	2480	-4.70	-57.1	≤-24.7	PASS
		Low	Hop_2402	-5.12	-58.03	≤-25.12	PASS
		High	Hop_2480	-5.42	-56.97	≤-25.42	PASS

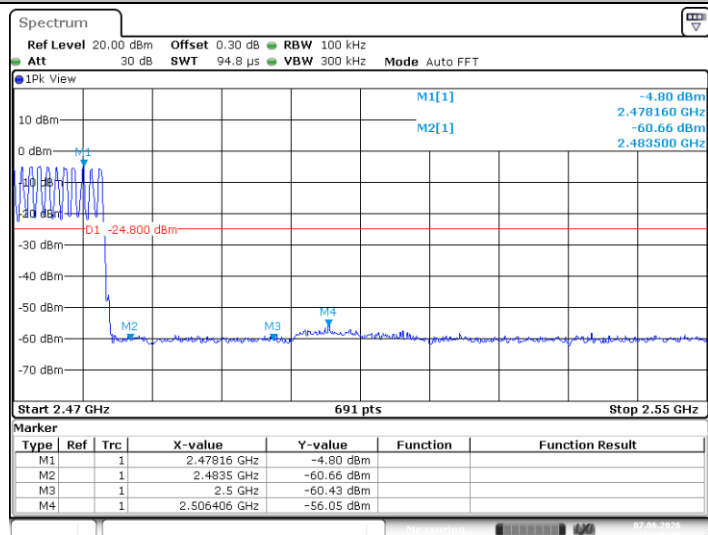
Test Graphs





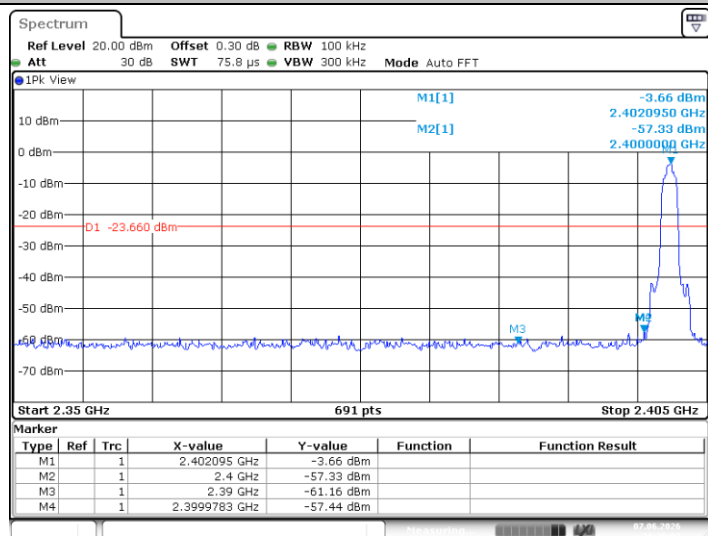
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DH5_Ant1_High_Hop_2480



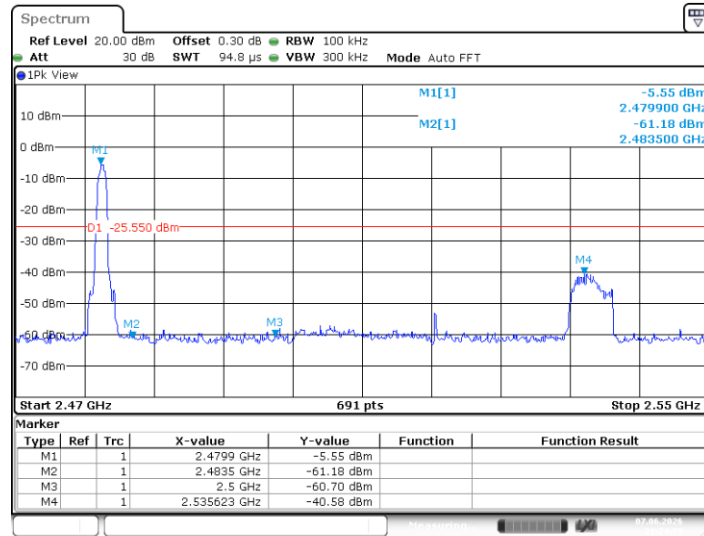
Date: 7.JUN.2026 21:40:15

2DH5_Ant1_Low_2402



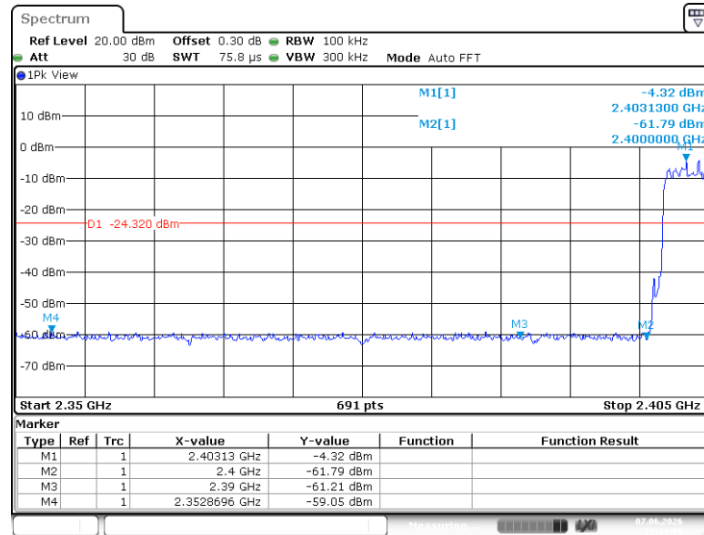
Date: 7.JUN.2026 21:20:02

2DH5_Ant1_High_2480



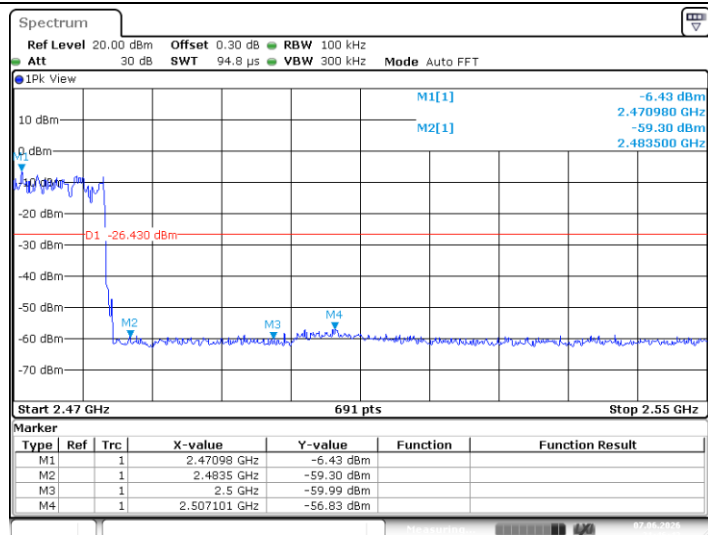
Date: 7.JUN.2026 21:24:59

2DH5_Ant1_Low_Hop_2402



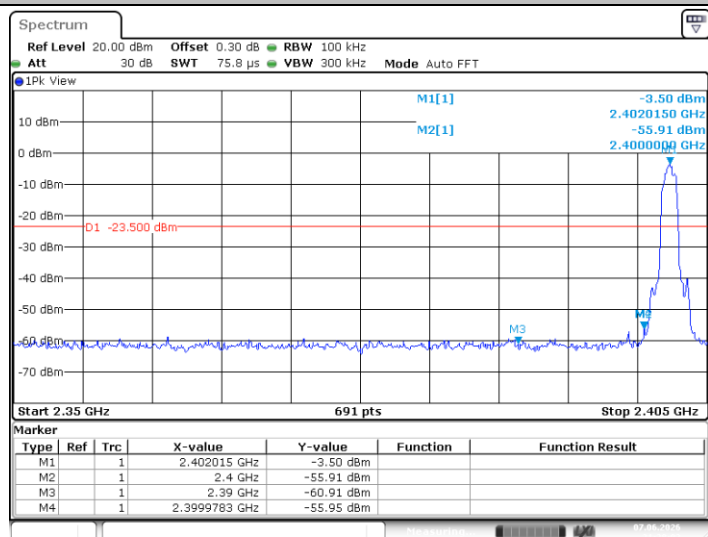
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2DH5_Ant1_High_Hop_2480



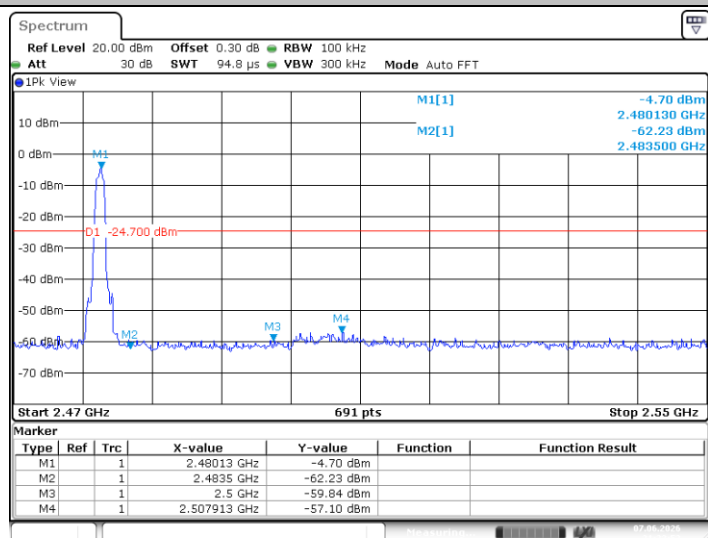
Date: 7.JUN.2026 21:46:43

3DH5_Ant1_Low_2402



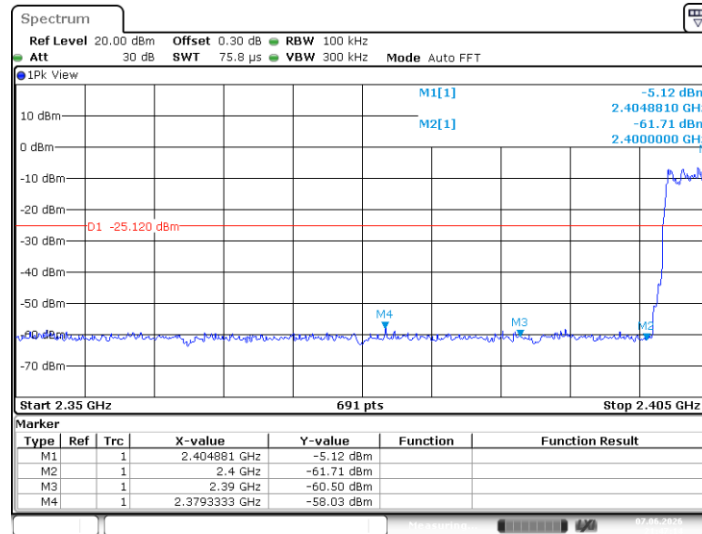
Date: 7.JUN.2026 21:28:03

3DH5_Ant1_High_2480



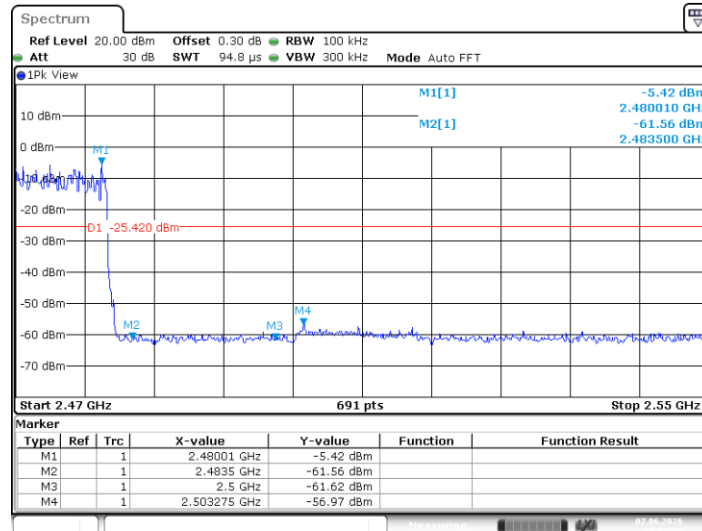
Date: 7.JUN.2026 21:32:52

3DH5_Ant1_Low_Hop_2402



Date: 7.JUN.2026 21:47:14

3DH5_Ant1_High_Hop_2480



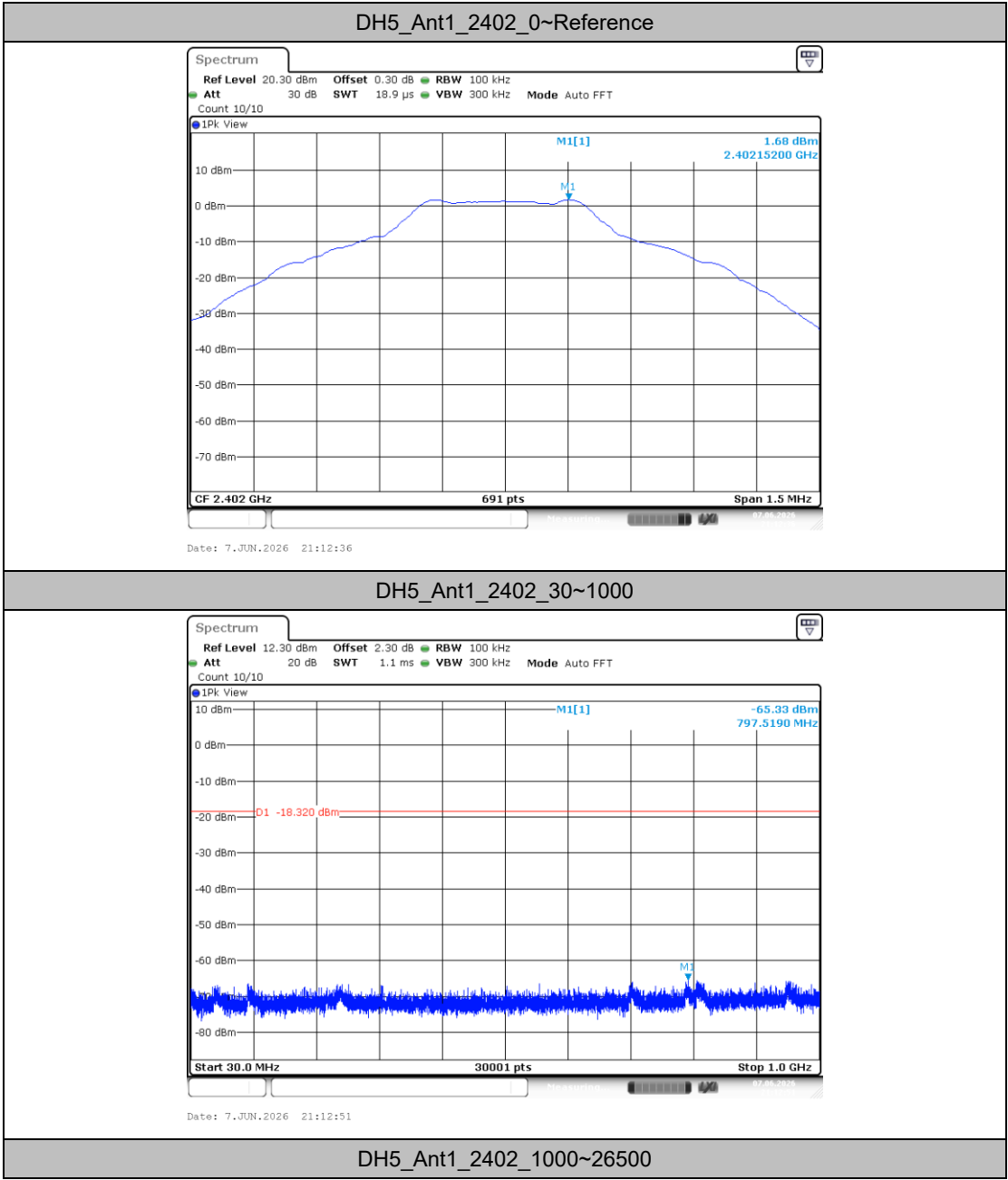
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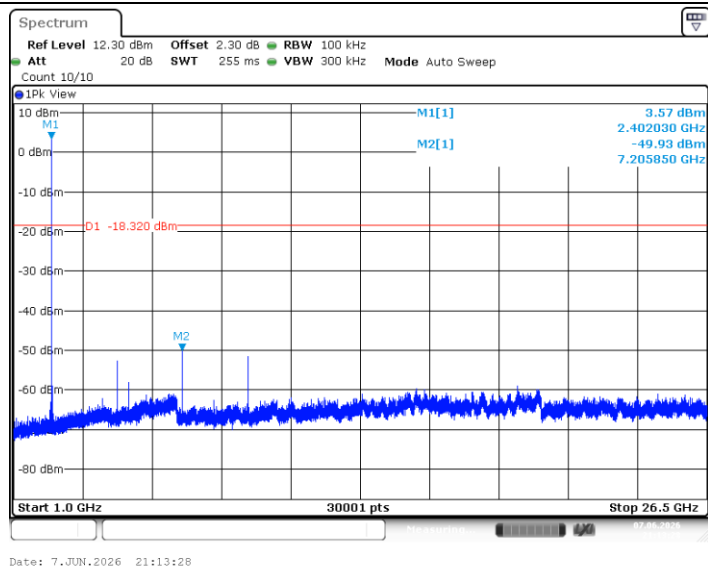
Appendix H: Conducted Spurious Emission

Test Result

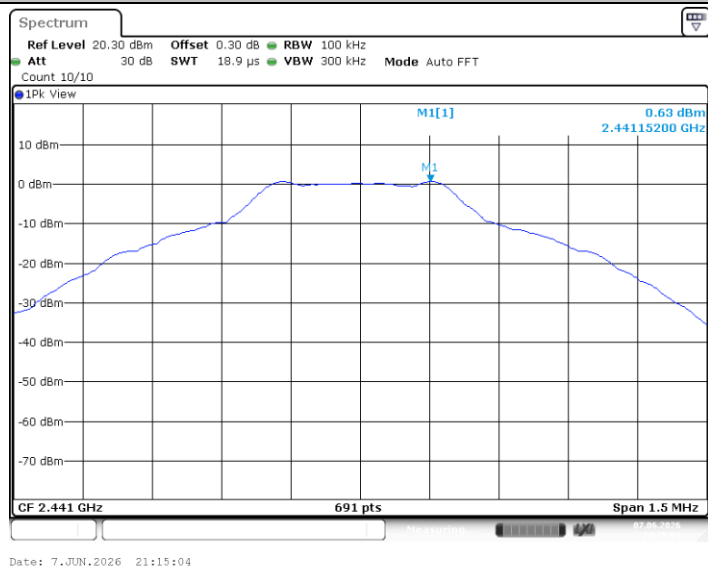
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-65.33	≤-18.32	PASS
			1000~26500	1.68	-49.93	≤-18.32	PASS
		2441	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-64.09	≤-19.37	PASS
			1000~26500	0.63	-49.23	≤-19.37	PASS
		2480	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-64.94	≤-20.49	PASS
			1000~26500	-0.49	-49.82	≤-20.49	PASS
2DH5	Ant1	2402	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-63.92	≤-23.73	PASS
			1000~26500	-3.73	-49.28	≤-23.73	PASS
		2441	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-63.95	≤-24.17	PASS
			1000~26500	-4.17	-50.73	≤-24.17	PASS
		2480	Reference	-4.88	-4.88	---	PASS
			30~1000	-4.88	-64.37	≤-24.88	PASS
			1000~26500	-4.88	-51.92	≤-24.88	PASS
3DH5	Ant1	2402	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-65.26	≤-23.56	PASS
			1000~26500	-3.56	-50.11	≤-23.56	PASS
		2441	Reference	-3.99	-3.99	---	PASS
			30~1000	-3.99	-65.04	≤-23.99	PASS
			1000~26500	-3.99	-50.08	≤-23.99	PASS
		2480	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-63.94	≤-24.71	PASS
			1000~26500	-4.71	-51.47	≤-24.71	PASS

Test Graphs

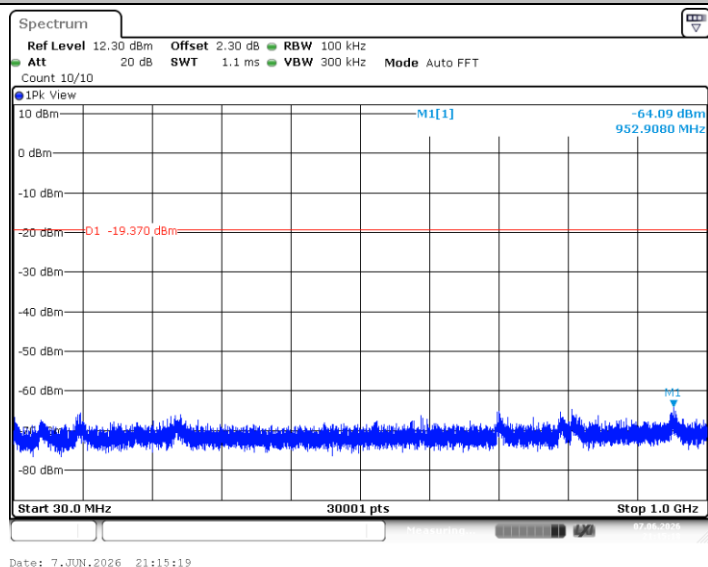




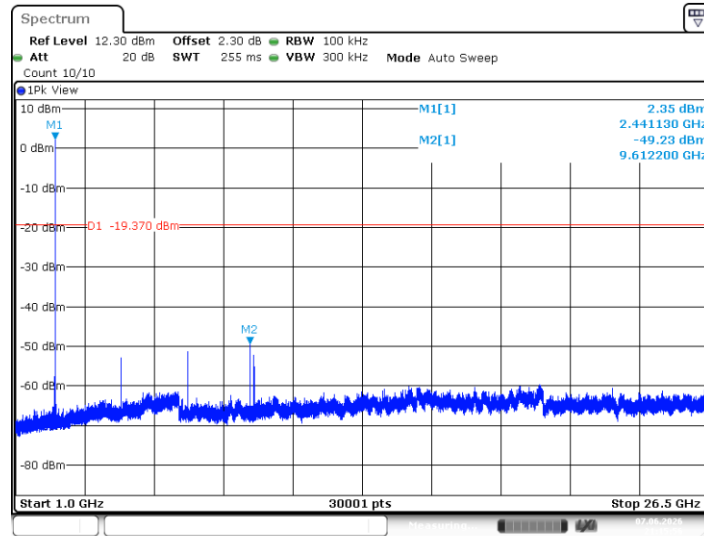
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

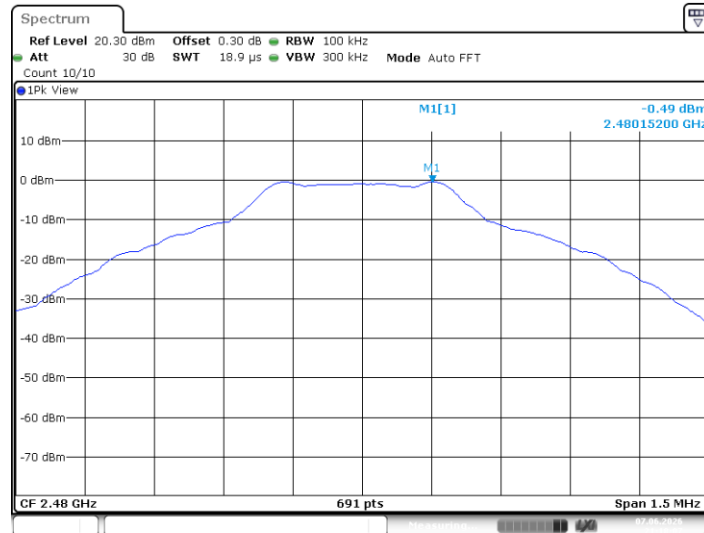


DH5_Ant1_2441_1000~26500



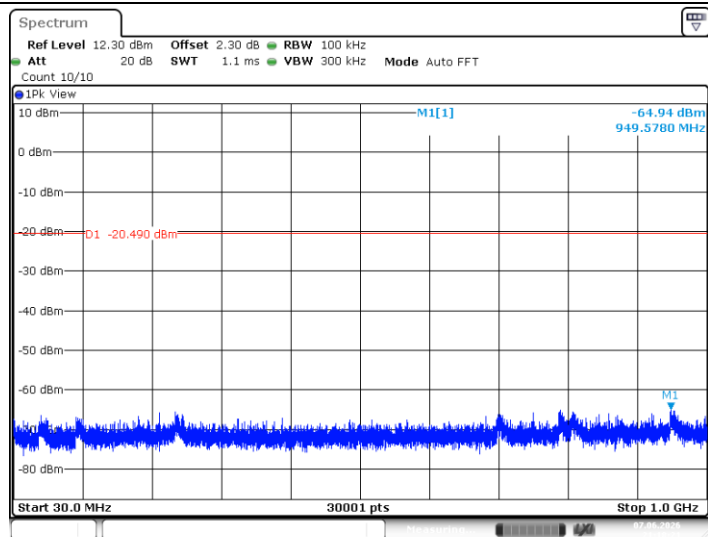
Date: 7.JUN.2026 21:15:56

DH5_Ant1_2480_0~Reference



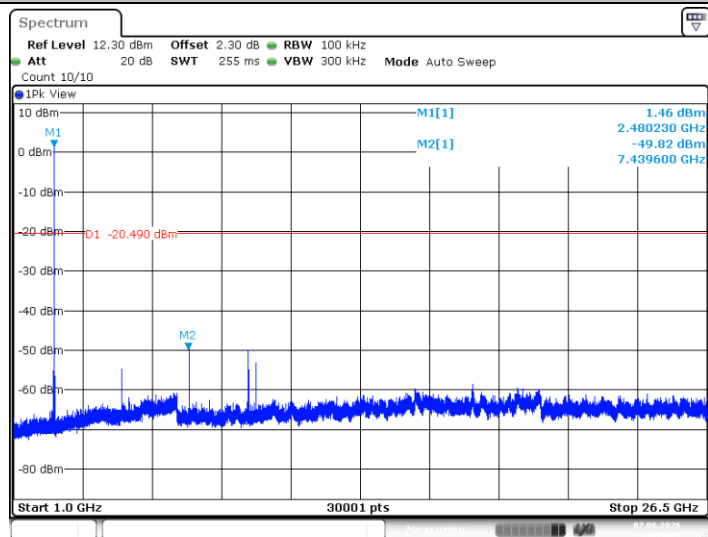
Date: 7.JUN.2026 21:18:07

DH5_Ant1_2480_30~1000



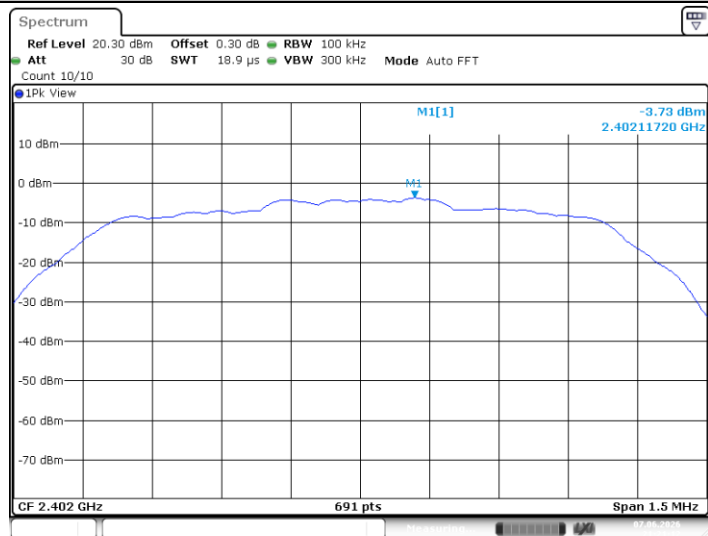
Date: 7.JUN.2026 21:18:22

DH5_Ant1_2480_1000~26500



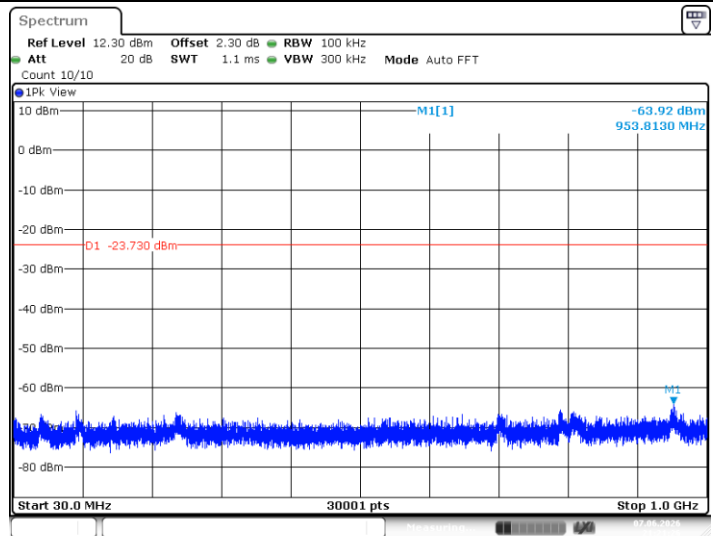
Date: 7.JUN.2026 21:18:59

2DH5_Ant1_2402_0~Reference



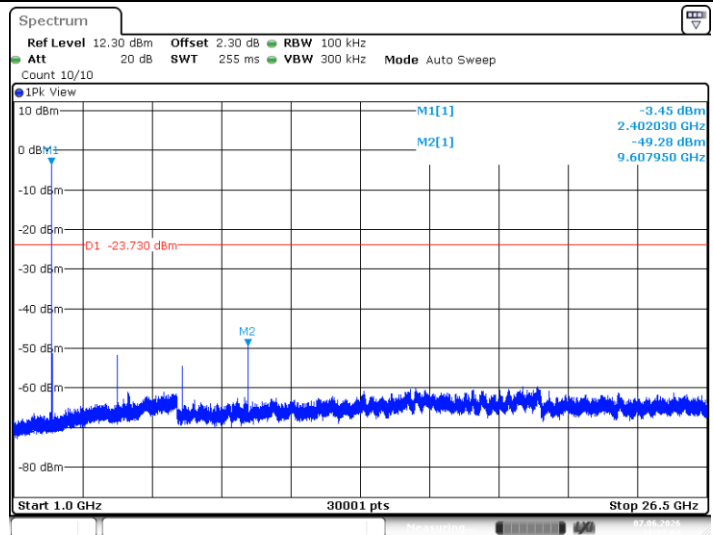
Date: 7.JUN.2026 21:21:12

2DH5_Ant1_2402_30~1000



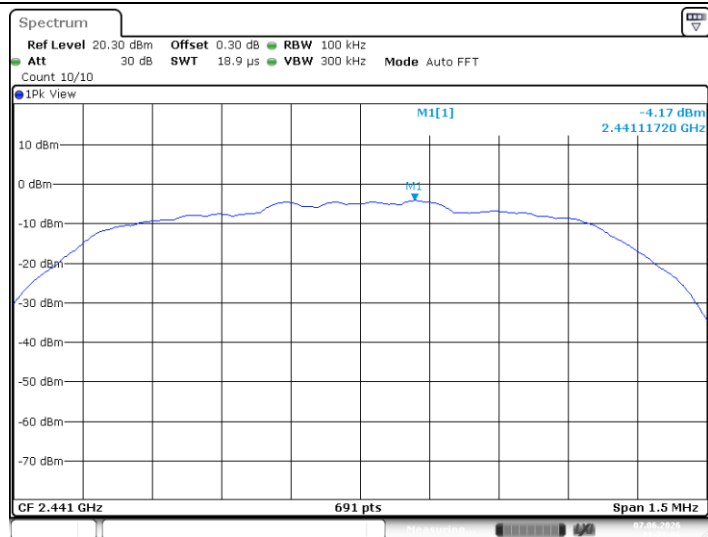
Date: 7.JUN.2026 21:21:27

2DH5_Ant1_2402_1000~26500



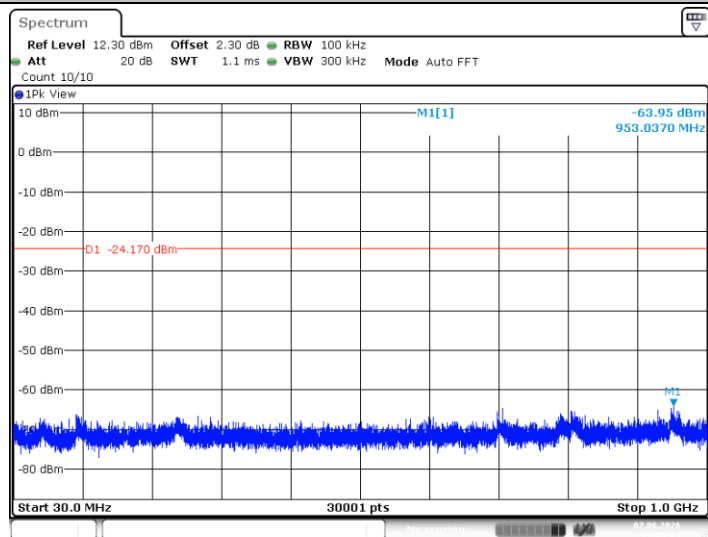
Date: 7.JUN.2026 21:22:04

2DH5_Ant1_2441_0~Reference



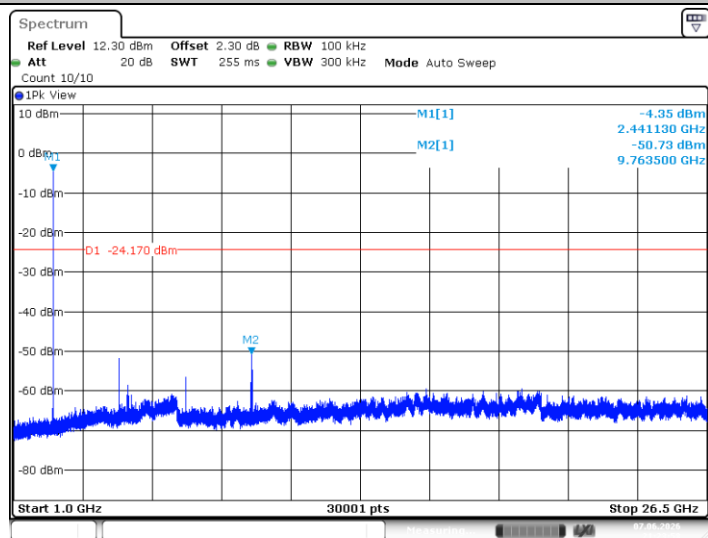
Date: 7.JUN.2026 21:23:07

2DH5_Ant1_2441_30~1000



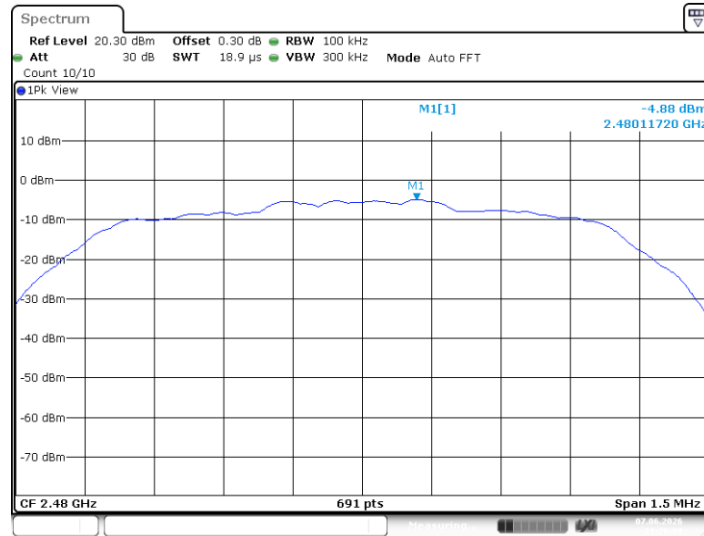
Date: 7.JUN.2026 21:23:21

2DH5_Ant1_2441_1000~26500



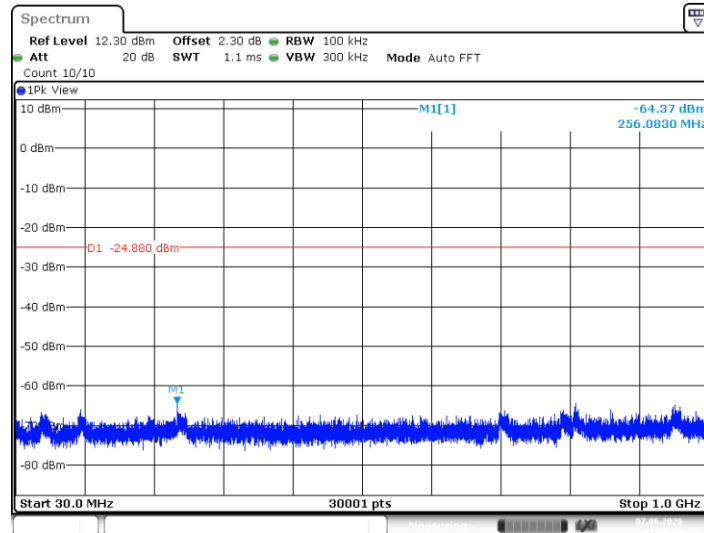
Date: 7.JUN.2026 21:23:58

2DH5_Ant1_2480_0~Reference



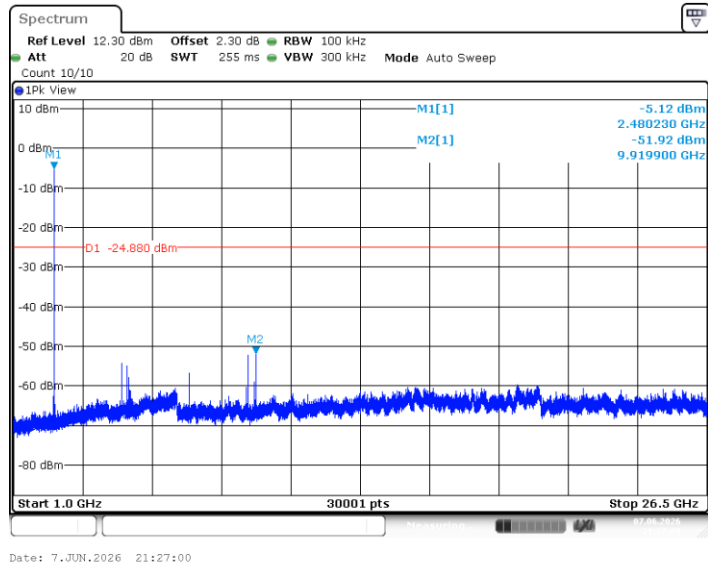
Date: 7.JUN.2026 21:26:09

2DH5_Ant1_2480_30~1000

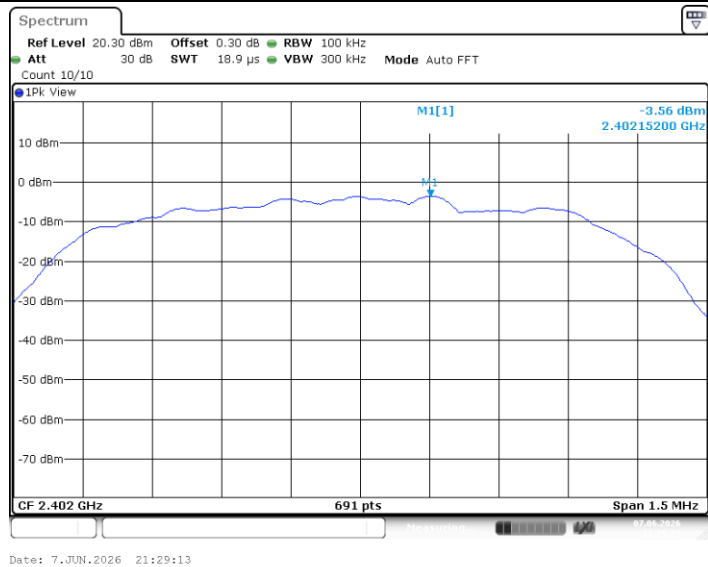


Date: 7.JUN.2026 21:26:23

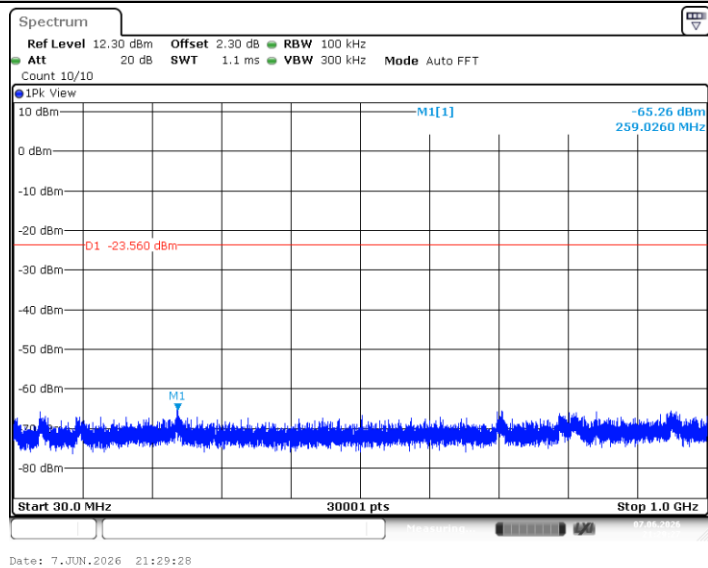
2DH5_Ant1_2480_1000~26500



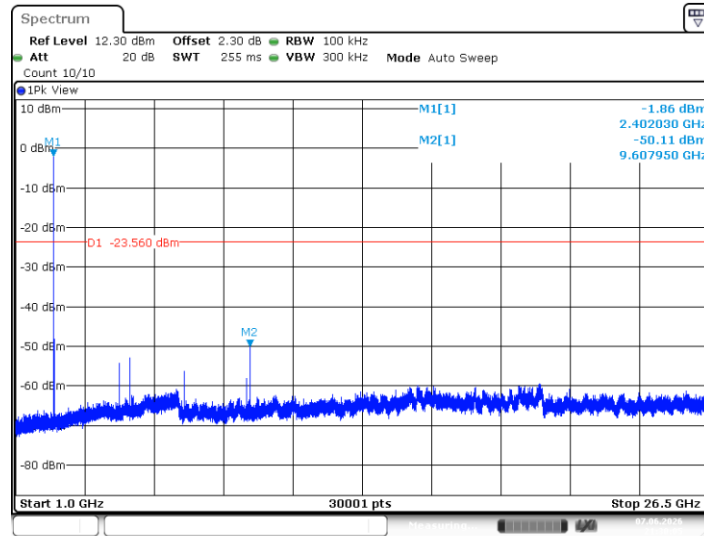
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

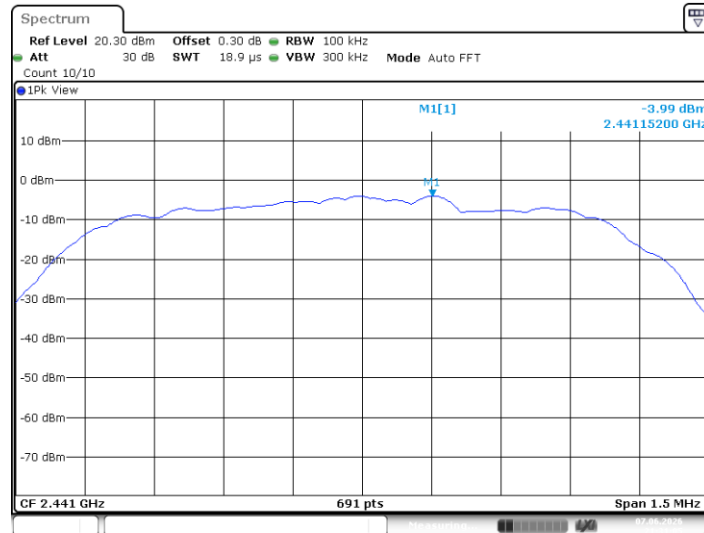


3DH5_Ant1_2402_1000~26500



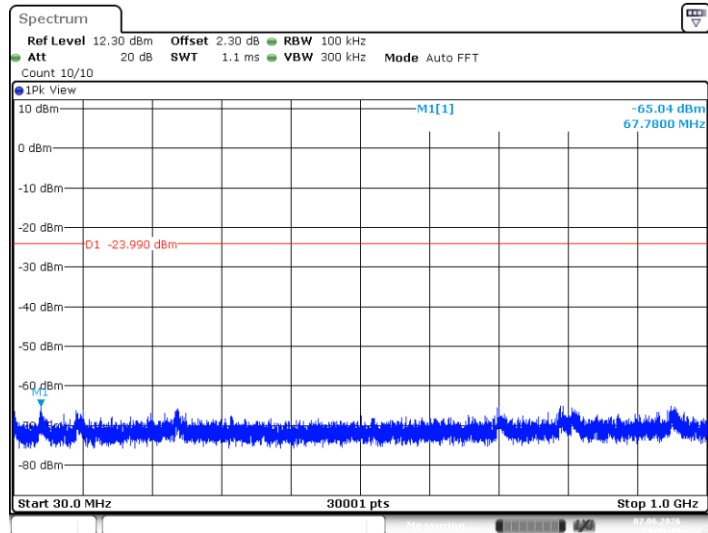
Date: 7.JUN.2026 21:30:05

3DH5_Ant1_2441_0~Reference



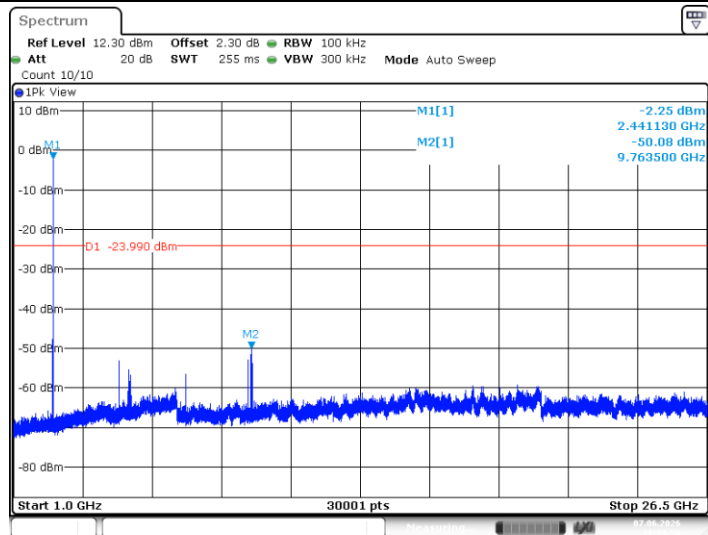
Date: 7.JUN.2026 21:31:05

3DH5_Ant1_2441_30~1000



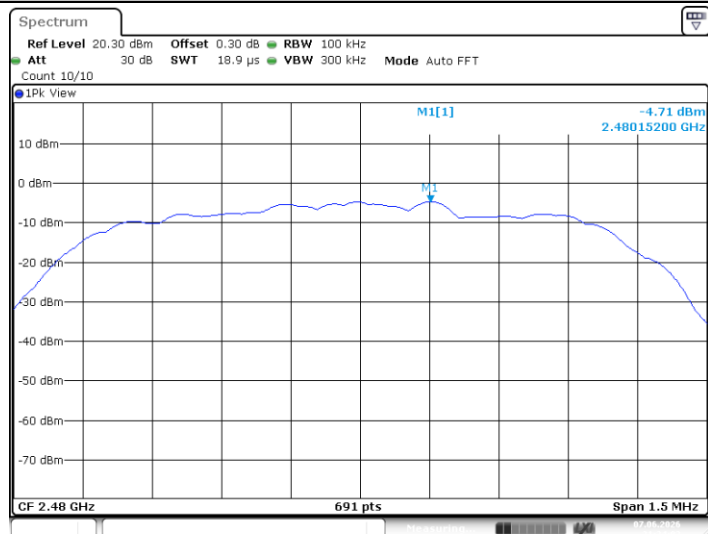
Date: 7.JUN.2026 21:31:19

3DH5_Ant1_2441_1000~26500



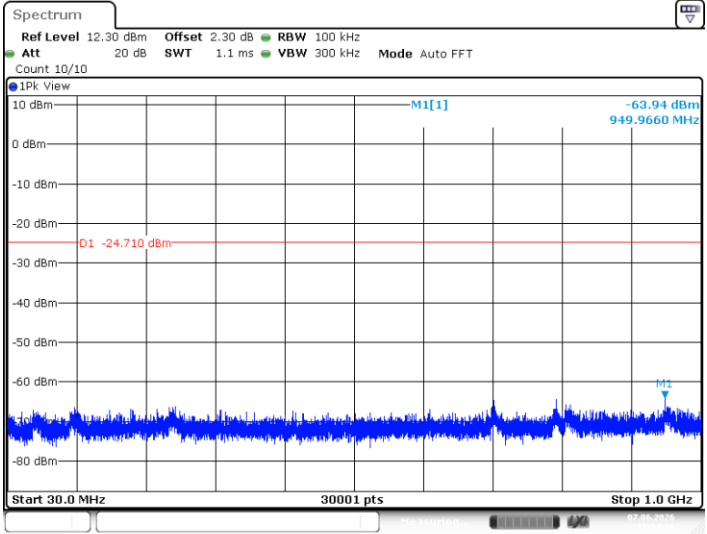
Date: 7.JUN.2026 21:31:56

3DH5_Ant1_2480_0~Reference



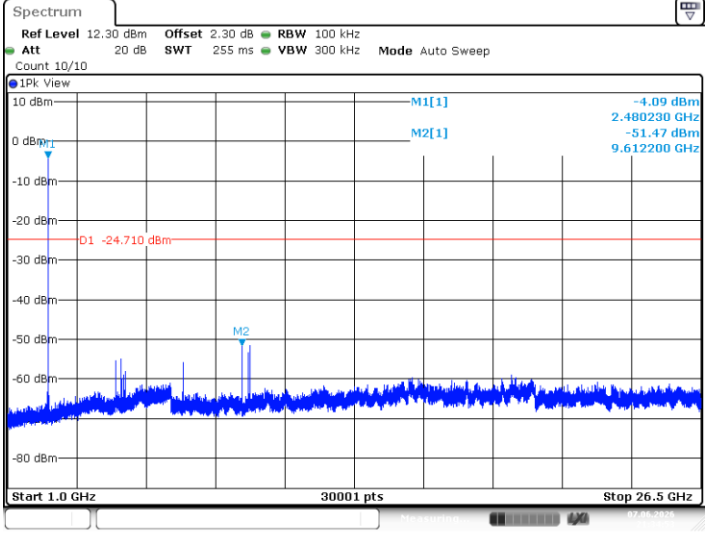
Date: 7.JUN.2026 21:34:02

3DH5_Ant1_2480_30~1000



Date: 7.JUN.2026 21:34:16

3DH5_Ant1_2480_1000~26500



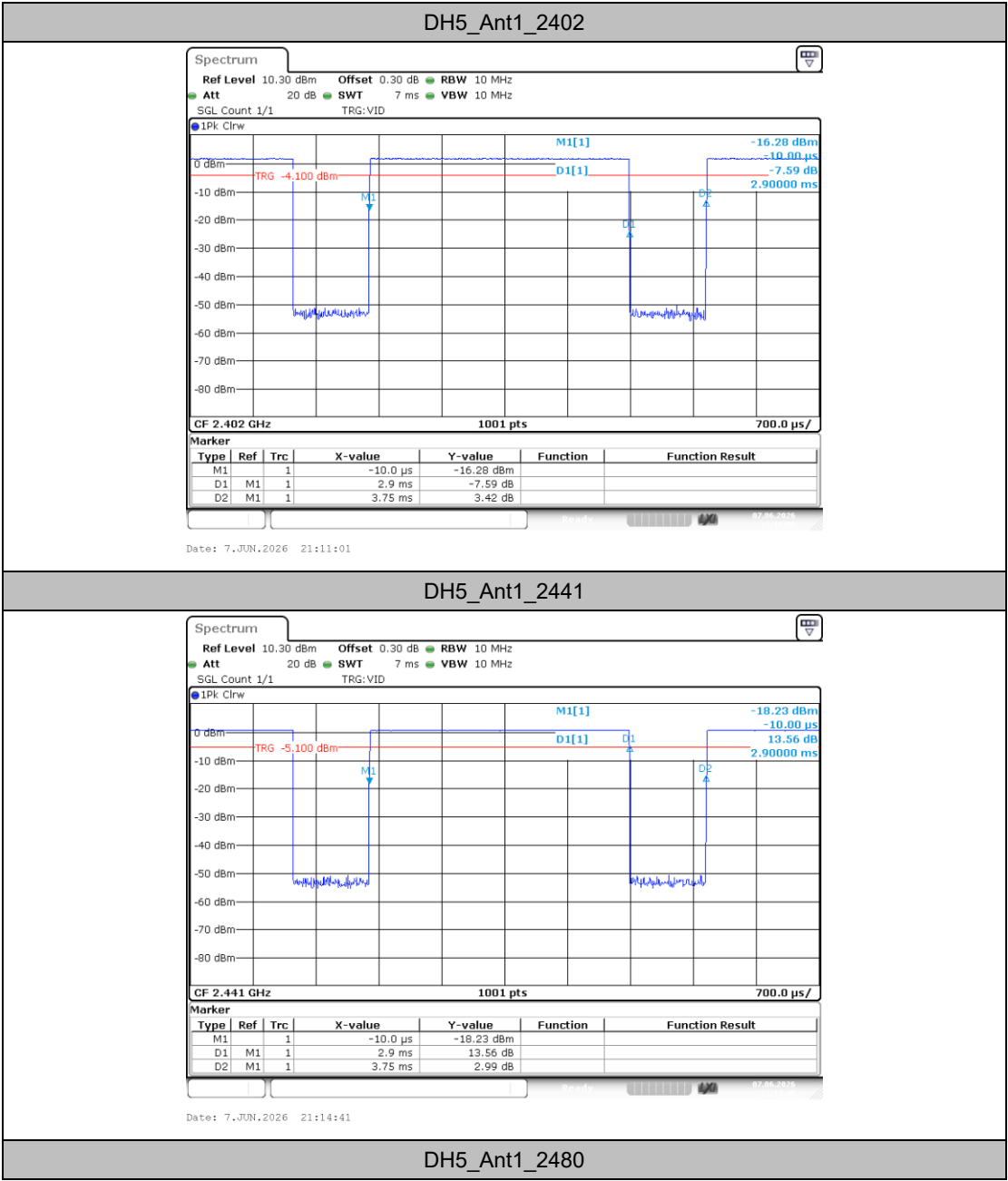
Date: 7.JUN.2026 21:34:54

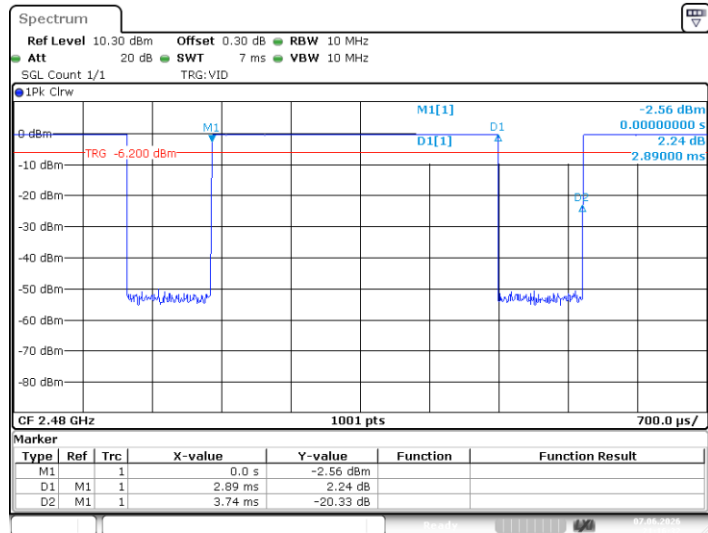
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	77.33	1.12	---	---
		2441	2.90	3.75	77.33	1.12	---	---
		2480	2.89	3.74	77.27	1.12	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.76	77.39	1.11	---	---
		2480	2.91	3.75	77.60	1.10	---	---
3DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.90	3.74	77.54	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---

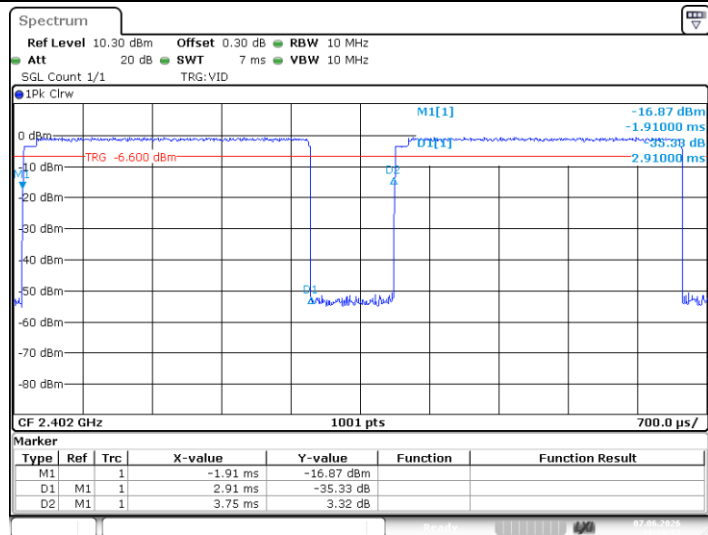
Test Graphs





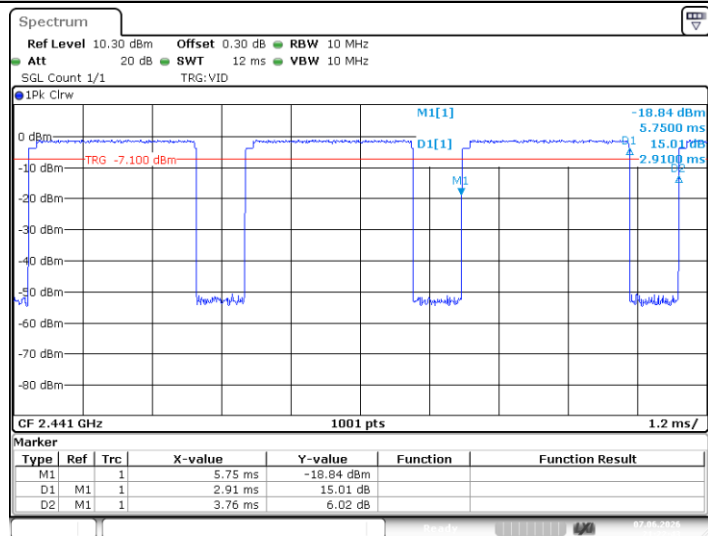
Date: 7.JUN.2026 21:16:32

2DH5_Ant1_2402



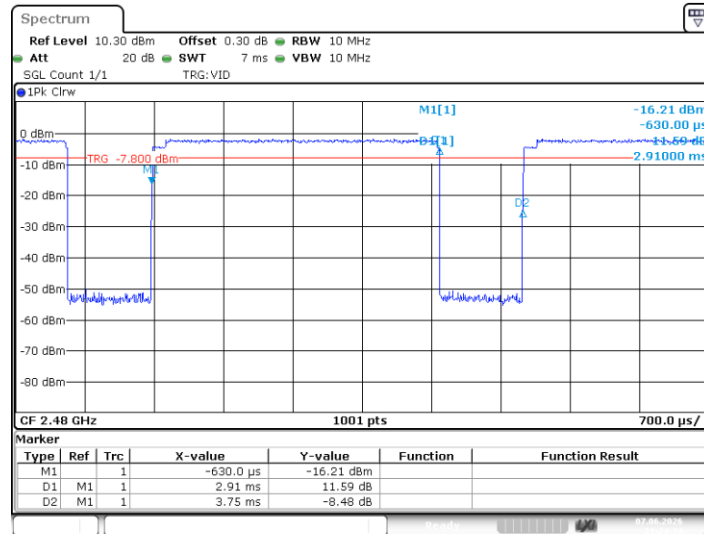
Date: 7.JUN.2026 21:19:37

2DH5_Ant1_2441



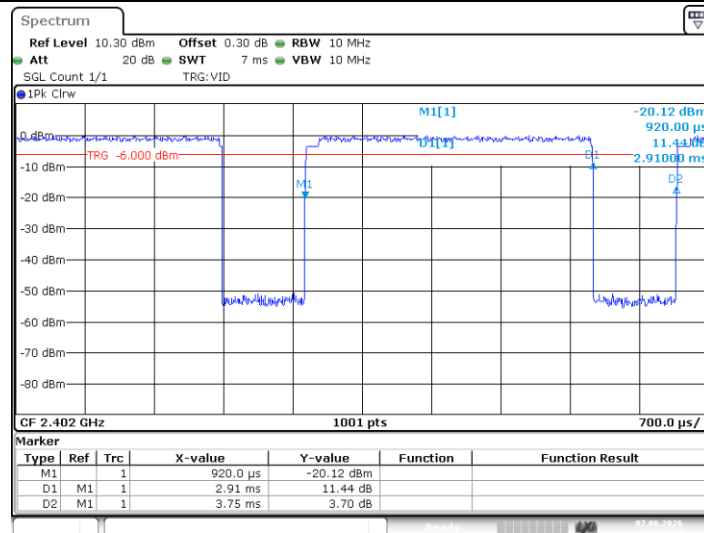
Date: 7.JUN.2026 21:22:43

2DH5_Ant1_2480



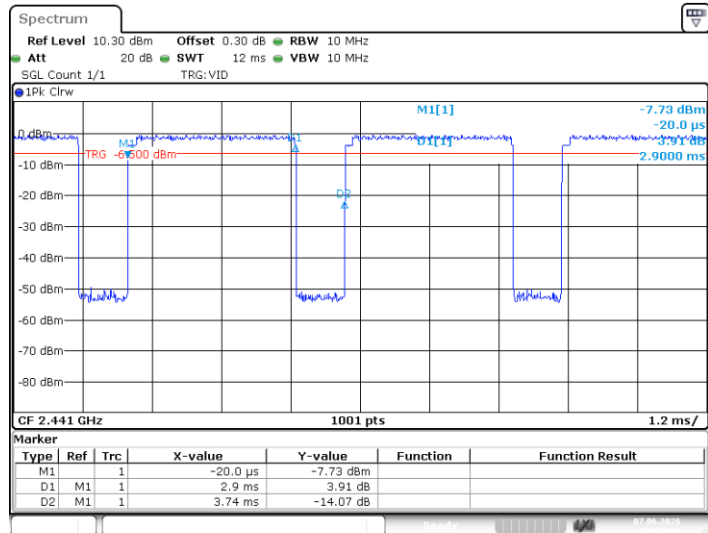
Date: 7.JUN.2026 21:24:33

3DH5_Ant1_2402



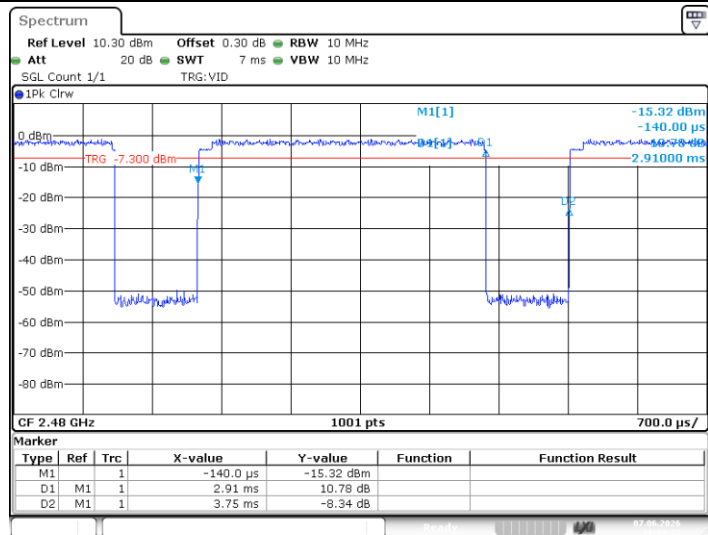
Date: 7.JUN.2026 21:27:38

3DH5_Ant1_2441



Date: 7.JUN.2026 21:30:40

3DH5_Ant1_2480



Date: 7.JUN.2026 21:32:27

Appendix J: Emissions in Restricted Bands

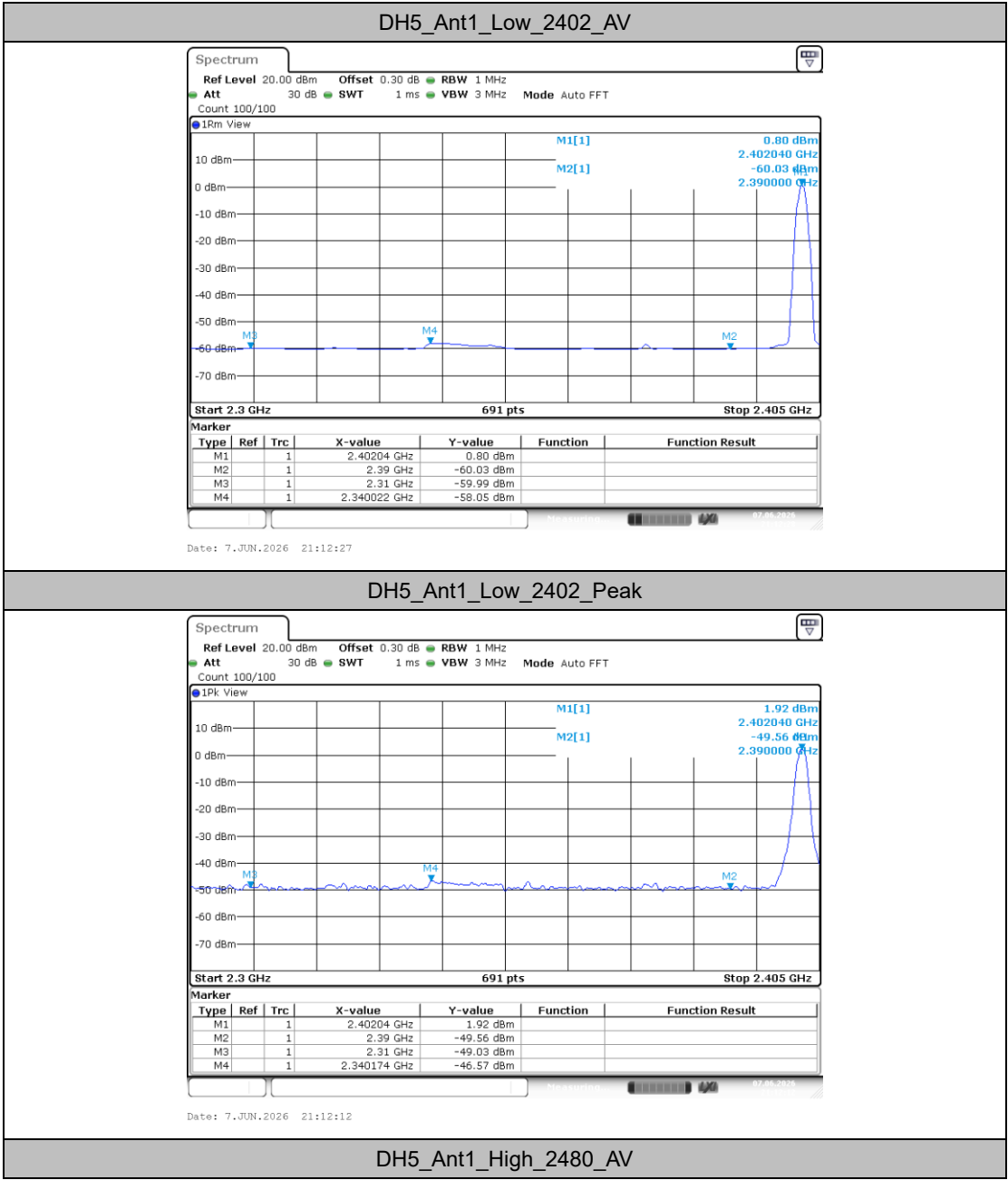
Test Result

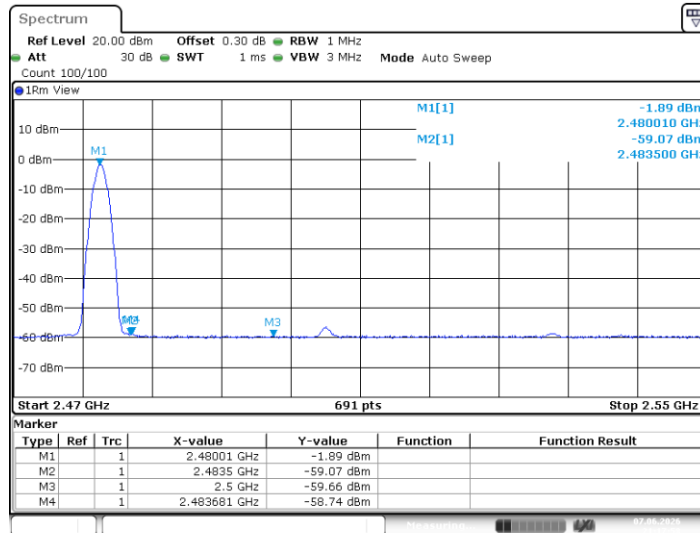
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.99	2.00	1.12	38.33	≤54	PASS
				AV	2340.022	-58.05	2.00	1.12	40.27	≤54	PASS
				AV	2390.000	-60.03	2.00	1.12	38.29	≤54	PASS
				Peak	2310.000	-49.03	2.00	0.00	48.17	≤74	PASS
				Peak	2340.174	-46.57	2.00	0.00	50.63	≤74	PASS
				Peak	2390.000	-49.56	2.00	0.00	47.64	≤74	PASS
		High	2480	AV	2483.500	-59.07	2.00	1.12	39.25	≤54	PASS
				AV	2483.681	-58.74	2.00	1.12	39.58	≤54	PASS
				AV	2500.000	-59.66	2.00	1.12	38.66	≤54	PASS
				Peak	2483.500	-44.98	2.00	0.00	52.22	≤74	PASS
				Peak	2483.681	-46.09	2.00	0.00	51.11	≤74	PASS
				Peak	2500.000	-49.34	2.00	0.00	47.86	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.95	2.00	1.10	38.35	≤54	PASS
				AV	2340.022	-58.03	2.00	1.10	40.27	≤54	PASS
				AV	2390.000	-60.09	2.00	1.10	38.21	≤54	PASS
				Peak	2310.000	-49.32	2.00	0.00	47.88	≤74	PASS
				Peak	2342.000	-46.23	2.00	0.00	50.97	≤74	PASS
				Peak	2390.000	-49.59	2.00	0.00	47.61	≤74	PASS
		High	2480	AV	2483.500	-59.68	2.00	1.10	38.62	≤54	PASS
				AV	2483.681	-59.3	2.00	1.10	39.00	≤54	PASS
				AV	2500.000	-59.87	2.00	1.10	38.43	≤54	PASS
				Peak	2483.500	-47.22	2.00	0.00	49.98	≤74	PASS
				Peak	2483.565	-46.57	2.00	0.00	50.63	≤74	PASS
				Peak	2500.000	-49	2.00	0.00	48.20	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.97	2.00	1.10	38.33	≤54	PASS
				AV	2341.696	-58.04	2.00	1.10	40.26	≤54	PASS
				AV	2390.000	-60.07	2.00	1.10	38.23	≤54	PASS
				Peak	2310.000	-49.56	2.00	0.00	47.64	≤74	PASS
				Peak	2341.087	-46.66	2.00	0.00	50.54	≤74	PASS
				Peak	2390.000	-49.02	2.00	0.00	48.18	≤74	PASS
		High	2480	AV	2483.500	-59.72	2.00	1.10	38.58	≤54	PASS
				AV	2483.797	-59.18	2.00	1.10	39.12	≤54	PASS
				AV	2500.000	-59.57	2.00	1.10	38.73	≤54	PASS
				Peak	2483.500	-46.61	2.00	0.00	50.59	≤74	PASS
				Peak	2483.681	-46.44	2.00	0.00	50.76	≤74	PASS
				Peak	2500.000	-49.77	2.00	0.00	47.43	≤74	PASS

Note:

1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

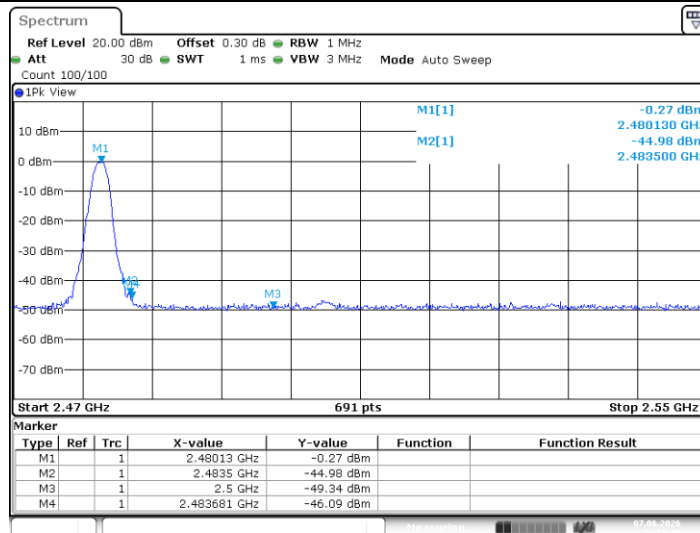
Test Graphs





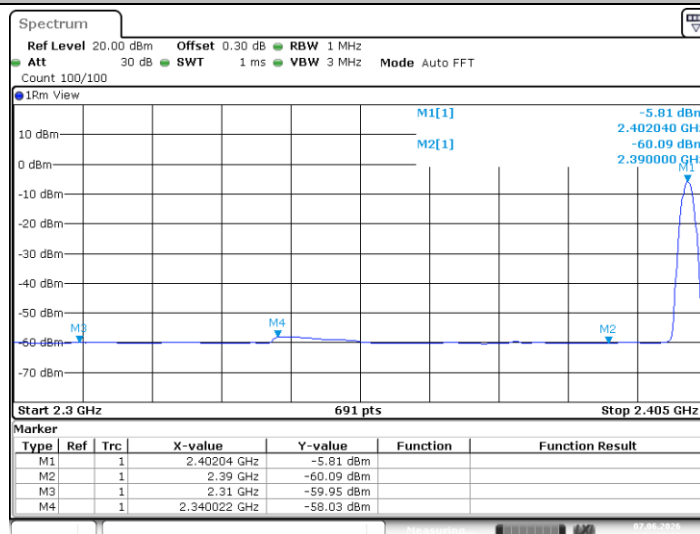
Date: 7.JUN.2026 21:17:58

DH5_Ant1_High_2480_Peak



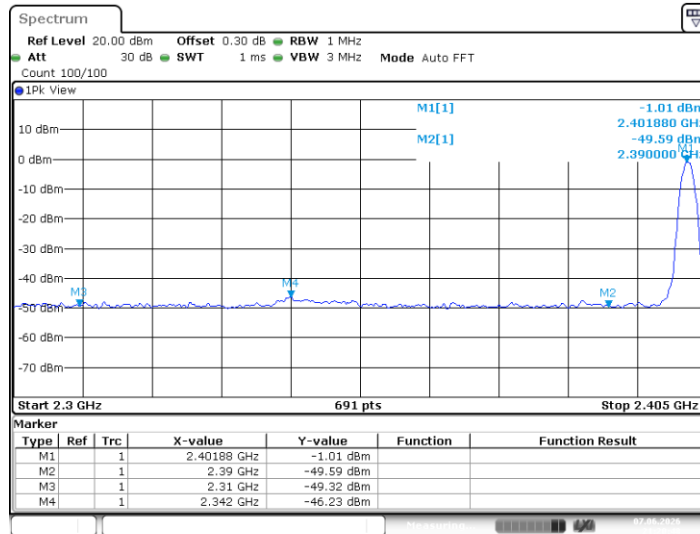
Date: 7.JUN.2026 21:17:43

2DH5_Ant1_Low_2402_AV



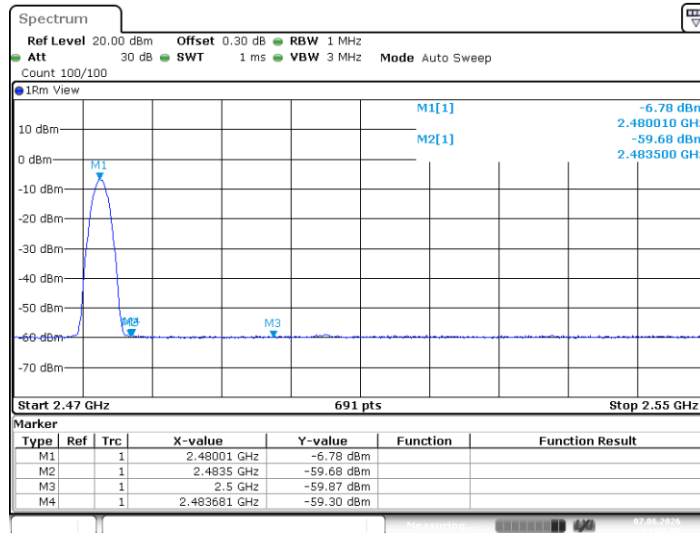
Date: 7.JUN.2026 21:21:03

2DH5_Ant1_Low_2402_Peak



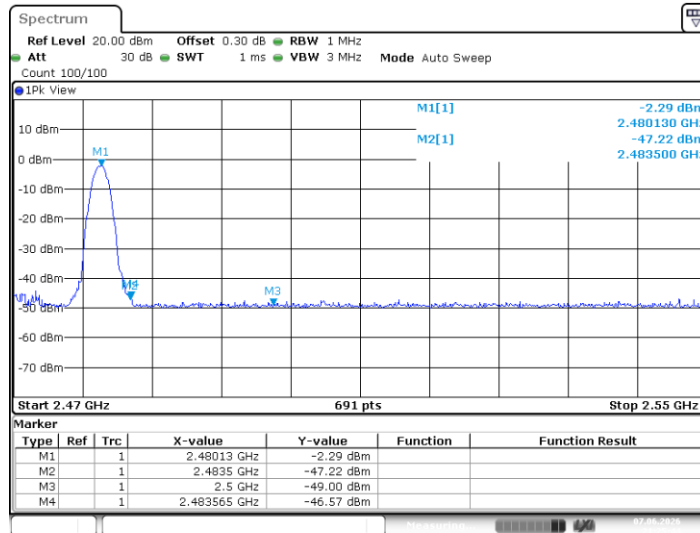
Date: 7.JUN.2026 21:20:48

2DH5_Ant1_High_2480_AV



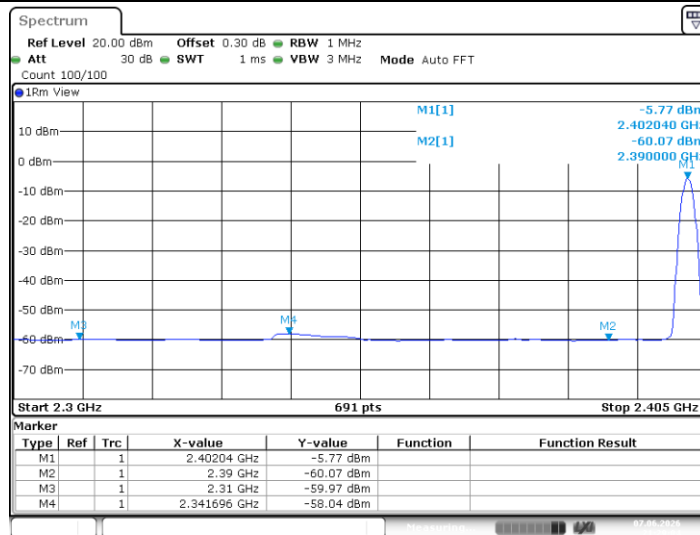
Date: 7.JUN.2026 21:25:59

2DH5_Ant1_High_2480_Peak



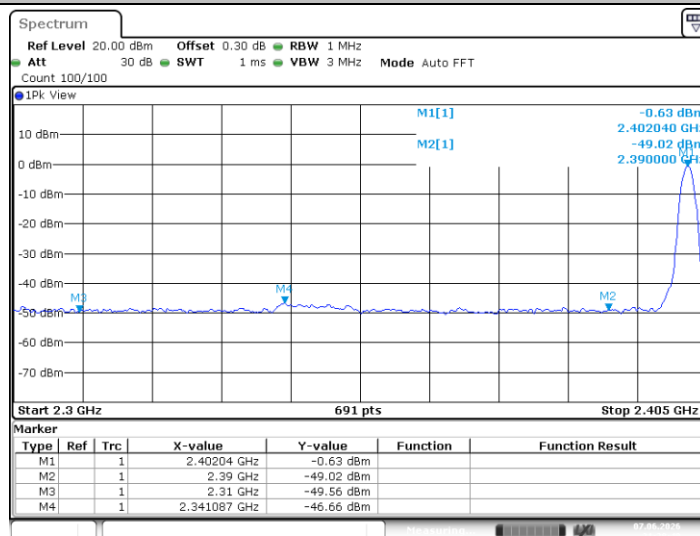
Date: 7.JUN.2026 21:25:44

3DH5_Ant1_Low_2402_AV



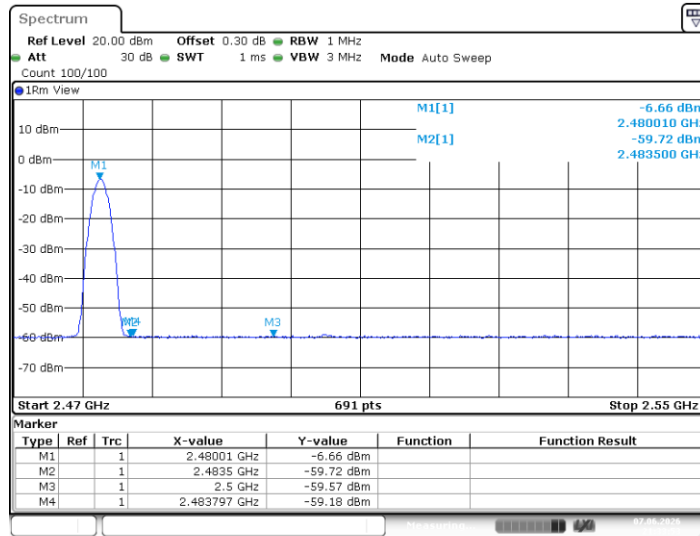
Date: 7.JUN.2026 21:29:04

3DH5_Ant1_Low_2402_Peak



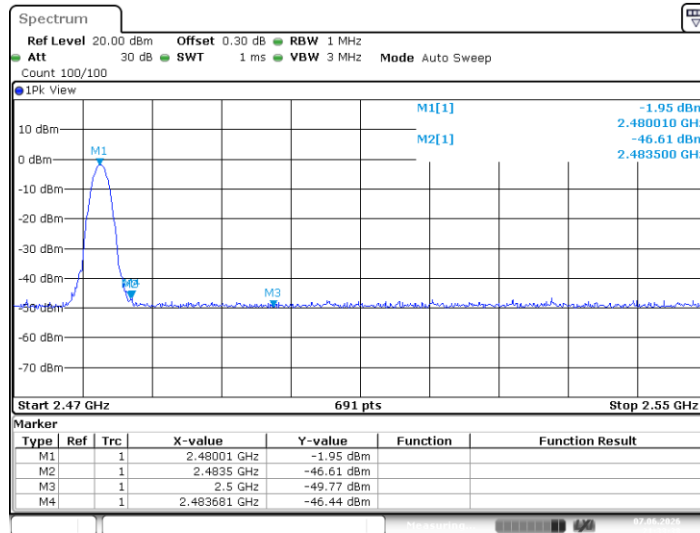
Date: 7.JUN.2026 21:28:49

3DH5_Ant1_High_2480_AV



Date: 7.JUN.2026 21:33:53

3DH5_Ant1_High_2480_Peak



Date: 7.JUN.2026 21:33:38